

	Matches	1000;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0
QY	1	GGTGTGACCTTATCCTCTCTGAACTCACTGATTTCCTCAATCCGTAATAATGAAAAGCTGTAG	60							
Db	1	GGTGTGACCTTATCCTCTCTGAACTCACTGATTTCCTCAATCCGTAATAATGAAAAGCTGTAG	60							
QY	61	ATTGTGTGTAATAAATAATGAAATAGCTAGGCGCGGTGCTCAGCGCTGTAAATCCCA	120							
Db	61	ATTGTGTGTAATAAATAATGAAATAGCTAGGCGCGGTGCTCAGCGCTGTAAATCCCA	120							
QY	121	GCACTTTAGAAAGTCCGAAAGGGGTGATCATCTTGAGGTTCAGGAGTTTGAACCAAGCTTG	180							
Db	121	GCACTTTAGAAAGTCCGAAAGGGGTGATCATCTTGAGGTTCAGGAGTTTGAACCAAGCTTG	180							
QY	181	GCGAACACGGTGAACCCCATCTCTACATCAATATAAATAAATAATGATGCTGAGGTGAGT	240							
Db	181	GCGAACACGGTGAACCCCATCTCTACATCAATATAAATAAATAATGATGCTGAGGTGAGT	240							
QY	241	CACACCTGTAAATCCAGCAGCATTTGGGAGGCTGAGACGGGTGATCACTGGAAGTCAGAG	300							
Db	241	CACACCTGTAAATCCAGCAGCATTTGGGAGGCTGAGACGGGTGATCACTGGAAGTCAGAG	300							
QY	301	TTTCAGGCGCAGCTTGGGCAACATGCTGAAACCAAGTCTCTACTAATAAATAACAAAATTAG	360							
Db	301	TTTCAGGCGCAGCTTGGGCAACATGCTGAAACCAAGTCTCTACTAATAAATAACAAAATTAG	360							
QY	361	CCAGGTGTGTGGCACAAGCCTGTATGCTCCAGCTACTTGGGAGGCTGAGGCGGAGAATC	420							
Db	361	CCAGGTGTGTGGCACAAGCCTGTATGCTCCAGCTACTTGGGAGGCTGAGGCGGAGAATC	420							
QY	421	GCTTGAACCCAGTAGGACAGAGTTGCAAGTAGAGCCGAGATAGAGTCACTGCACCTCAGCC	480							
Db	421	GCTTGAACCCAGTAGGACAGAGTTGCAAGTAGAGCCGAGATAGAGTCACTGCACCTCAGCC	480							
QY	481	TGGGTGACAGAGCAAGCACTCCCTCTCAGAAAAATAAATAAATAAATAAATAAATAAATA	540							
Db	481	TGGGTGACAGAGCAAGCACTCCCTCTCAGAAAAATAAATAAATAAATAAATAAATAAATA	540							
QY	541	AATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA	600							
Db	541	AATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA	600							
QY	601	AGTAATAGCTATCAATATCCCAACCCCTACCACTGTGCTGAATAATTAGTTCTTTTGTG	660							
Db	601	AGTAATAGCTATCAATATCCCAACCCCTACCACTGTGCTGAATAATTAGTTCTTTTGTG	660							
QY	661	ACCCGCCATTAGAATTAAAGGAGAAATTCACACCGTACTCTGTGAATAATTCTGTGCTCT	720							
Db	661	ACCCGCCATTAGAATTAAAGGAGAAATTCACACCGTACTCTGTGAATAATTCTGTGCTCT	720							
QY	721	GGCACATATGTTGGGTCTCAGTGAACATGAGTGAAGTAATGAGCAATCAAGAAATCTCC	780							
Db	721	GGCACATATGTTGGGTCTCAGTGAACATGAGTGAAGTAATGAGCAATCAAGAAATCTCC	780							
QY	781	AGGCCATGTGGAGAGCCCTCCAGGCGGGGTGAGTTGCGGAAATCTCATGCTGTCTCTCAT	840							
Db	781	AGGCCATGTGGAGAGCCCTCCAGGCGGGGTGAGTTGCGGAAATCTCATGCTGTCTCTCAT	840							
QY	841	GAGCCCACTGAAAGGTAGAGAGTTCTGGGTCCCACTCCGCAACCCCACTCTCTGACTGAC	900							
Db	841	GAGCCCACTGAAAGGTAGAGAGTTCTGGGTCCCACTCCGCAACCCCACTCTCTGACTGAC	900							
QY	901	TGCTGAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	960							
Db	901	TGCTGAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	960							
QY	961	CAGGACTGCAAGAGGCGCAGCAAGATATGACCCGGCGTGC	1000							
Db	961	CAGGACTGCAAGAGGCGCAGCAAGATATGACCCGGCGTGC	1000							

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: Sequence 3, Application US/09817180
: Patent No. 6340584
: GENERAL INFORMATION:
: APPLICANT: CAN. Weinlu et al.
: TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
: TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
: TITLE OF INVENTION: THEREOF
: FILE REFERENCE: C0001183
: CURRENT APPLICATION NUMBER: US/09/817,180
: CURRENT FILING DATE: 2001-03-27
: NUMBER OF SEQ ID NOS: 4
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 3
: LENGTH: 15297
: TYPE: DNA
: ORGANISM: Human
US-09-817-180-3

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Query Match	29.6%;	Score 296;	DB 4;	Length 15297;
Best Local Similarity	83.4%;	Pred. No. 4.6e-58;		
Matches 371;	Conservative 0;	Mismatches 71;	Indels 3;	Gaps 3;

Oy	97	CGGGGCGCTCAGCGCTGTAAATCCGAGCACTTTAGAAAGTGGAAAGGGGTGATCATCTTGG	156
Db	11700	CAGTTGCTCAGCGCTGTCAATCCACGACACTTTGGGAGGCTGAGCTGGGTGATCATCTTGG	11755
Oy	157	GTCAGAGGTTTGAAGACAGCGCTGGCCOACACGGTGAATCCCATCTTACTTAATAATAAATA	216
Db	11760	CCCGAGAG-TTCAAGATCAGCTTGAGCAACACAGTAAATCTCATCTGTACAAAAAATAC	11818
Oy	217	AAATTTGCTMGGGGTGGGTGGGTCAACCTGTAAATCCGAGCACTTTGGAGAGGCTGAGAC	276
Db	11819	AAAAATGACTGGGCAAGTGGCTCAACCTGTAAATCCGAGCACTTTGGAGAGGCGAGGC	11878
Oy	277	GGGTGATCACTGAATCAGAGATTCAAGGCCAGCCTGGGCAACATGTGAAACCAAGT	336
Db	11879	AGGTGATCACTGTGGTCAAGAGTTTGAAGACAGCCAGACCAACATGTGAAACCCCAT	11938
Oy	337	CTCTACTTAAAAATACAAAAATTGACCAAGTGTGTGGGACAGCGCTGTAGTCCCAAGTAC	396
Db	11939	CTCTACTTAAAAATACAAAAATTGACCAAGCATGTGTGGACGTGCTGTAAATCCCAAGTAC	11998
Oy	397	TTGGGAGGCTGAGGCGGAGAAATCGCTTGAACCCAGTAGGAGGTTCAAGTAGAGCCGA	456
Db	11999	TTGGGAGGCTGAGGCTGGAGAAATTGCTTGAACCCAGAGGCGGAGGCTCAAGTAGGCCGA	12055
Oy	457	GATPAGAGTCACTGCACCTCCAGCTTGGGTGAC-AGAGCAAGACTCCCTTCAGAATAATA	515
Db	12059	GAT-TGTGCACATGCACCTCCAGCTTGGGCGACAAAGATGAATAATCTCATCTCAAAAAAATAC	12117
Oy	516	AATTAATTAATAATAATAATAATA 540	
Db	12118	CAAAAAACAATAATACAAAAATTA 12142	

RESULT 2
US-09-817-180-3

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COUNTRY: USA
ZIP: 94304

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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,901
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: P-0367 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 2713 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-916-901-6

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Query Match	28.4%;	Score 284;	DB 2;	Length 2713;
Best Local Similarity	81.3%;	Pred. No. 1.7e-55;		
Matches 365;	Conservative	0;	Mismatches 81;	Indels 3;
				Gaps 3;

Oy	74	AAATTTAAATGGAATAGCGTAGCGCGGGTGTACAGCCGTGAATCCAGACCTTTAGAAAG	133
Db	1668	AAAAATACAAATATTGCGCGCGCGGTGCTCACCTGTGAATCCAGCTACTTGGGAGG	1747

Oy 134 TCGAAGAGGCTGATCATCTGAGGTCAGAGTTTGAAGCAAGCTTGCCCAACGCGTA 193
 Db 1748 CTGAGCGCAGAGAACTCACTTGAAGTCAGAG-TTTGAGACCAAGCTGCGCCAACGTGTGA 1806

Oy 194 AACCCCATCTCTACTAAATAAATAATAGCTNGNGGTGGGGTGCACACCGTAATC 253
 Db 1807 AACCTGTCTCTACTAAAAATACAAAACACTAGGCCAGCGCGGGGTGGCACGCTGTAATC 1866

Oy 254 CCAGCACCTTTGGAGAGGCTAGACCGGGTGGATCACTGAAGTCAGGAGTTCAGGGCCAGCC 313
 Db 1867 TCAGCACCTTTGGAGAGGCCGAGGACAGGTGATCACTGAAGTCAGGAGTTCAGACCAAGCC 1928

Oy 314 TGGGCAACATGTGTAAACCAAGTCTCTACTAAATAATAGCCAGTGTGTG 373
 Db 1927 TGGCCAACATGTGTAAACCCCACTCTACTAAATAATAGCCAGCATGTGTG 1986

Oy 374 CACACGCCCTGATGCCACCTACTTGGGAGGCTGAGCCGAAAGATCGCTTGAACCCAGT 433
 Db 1987 TGCATGCCCTGATGCCACCTACTTGGGAGGCTGAGCCGAAAGATTCGCTTGAACCCGGG 2048

Oy 434 AGGAGAGGGTTGACGTAGAGCCGAGTTAAGTCACTGTCACTCCAGCCTGGGTGCAGAGC 493
 Db 2047 A-GCAGAGGTTGACGTAGAGCCGAGATCA-TGCCACTGTCACTCCAGCCTGGGTGCAGAGC 2104

Qy	499	AAAGCTCCCTCTCAGAAAATAAAAATAAAA	522
Db	2105	GAGACTCCATTTCAAAAAAGAAGTACA	2133

RESULT 4
US-09-154-602-6

Patent No. 6300472
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.

APPLICANT: Corley, Neil C.
APPLICANT: Shah, Purvi
TITLE OF INVENTION: RAB PROTEINS

NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3114 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA

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;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Diskette
;      COMPUTER: IBM Compatible

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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/154,602

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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/916,901
FILING DATE:

NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0367 US

TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 6:

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; LENGTH: 2713 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

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US-09-154-602-6

Query Match	28.4%;	Score 284;	DB
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	Matches	365;	Conservative	0;	Mismatches
QY	74	AATTAATGATAGCTAGCGCGTGCTCACCG			

Db 1688 AAAAATACAAAATTAGCCGGCCGTGGTGGCTACAC
QY 134 TCGAAGAGGTGATCACTTAGGTCAAGAGTTT

Db 1748 CTGAGGCGAGGAATCATTGAGGTCAGGAG-TTT
QY 194 AACCCATCTCTACTAAATAAAAAATTAGCTNG

Db 1807 AACCTGTCTCTACTAAATACAAAAACTAGGCC
QY 254 CCAGCACTTGGAGCGTAGACGGGTGATCAACC

Db 1867 TCAGCACTTTGGGAGGCCGACGAGGTGATCAACC
QY 314 TGGGCAATGTTGAACACGCTTCTACTAAAAA

Db 1927 TGCCACATGTTGAACCCCACTCTACTTAAAAA
QY 374 CACAGCCTGTAGTCCCACTACTTGGAGGTGA

Db 1987 TGCATGCTGTATCCAGCTACTTGGAGGCTGAT
QY 434 AGGAGAGTTGCAGTGAGCCAGATAAGAGTCAAC

Db 2047 A-GCAGAGGTTGCAGTGAAGCCGAGATCA-TGCCAG
QY 494 AAGACTTCCTCTCAGAAAAATAAATAAAA 522

Db 2105 GAGACTTCATTTCAAAAAAGAACTACA 2133

US-09-318-448-5/c

NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Fastseq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/154,602
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/916,901
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0367 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555

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; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2713 base pairs

```

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! STRANDEDNESS: single
! TOPOLOGY: linear
US-09-154-602-6

```

Query Match	28.4%	Score 284	DB 4	Length 2713
Best Local Similarity	81.3%	Pred. No. 1.7e-55		
Matches 365	Conservative 0	Mismatches 81	Indels 3	Gaps 3

QY 74 AATTAATGAATAGGCTAGGCGCGGTGGCTACGCGCTGATCCAGGACCTTAGAAG 133
Db 1688 AAAAATACAAAATTGACCGCGCGCTGTGGCTCACACCTGTAACTCCAGCTACTTGGGAGG 1747

Qy 134 TCCAGAGGGGTGATCTCTTGAGGTCAAGAGATTGTGAGACCAGCTCGGCACACGGTGA 193
Db 1748 CTGAGCGAGAGATCACTTGTAGGTCAAGAG-TTTGAGACCAAGCTCGGCACACGTGTGA 1806

194 AACCCCAATCTCTACTAAATAATATAAAATTTAGCTNNGGCGGCTCACACACTGTATTC 253
 1807 AACCTGTCTCTACTAAATAATCAAAAACTAGGCCAGGCGCGGCTGSCACGCTGTATTC 1866

Qy 254 CCAGCATTGGGAGGCTGAGACGGGTGGATCATCTGAAGTCAGGAGTTCAAGGCCAGCC 313

Db 1867 TCAGCATTTGGGAGGCCGAGCGAGGTGGATCATCTGAAGTCAGGAGTTCAAGACCAAGCC 1926

Qy 3 14 TGGGCAACATGGGGAACCCAGCTCTAATAAAATCAAAAATTAGCAGGTGTGTG 373
Db 1927 TGGCCAACTGGTGAAACCCCACTCTAATAAATACAAAATTAGCCAGCATGTGTG 1986

0y 374 CACACGCGCTGTAGTCCACAGCTACTTTGGAGGCTGAGGCGGAAGATCGCTTGAACCCAGT 433
Db 1987 TGCAATGCTGTATATCCCACTACTTTGGAGGCTGAGGCGAGAGAAATTCCTTGAACCCGGG 2046

434 AGGCAGAGGTTGCAGTGCAGCCGATATAGATCTACTGCAGCTCGGCTGACAGAGC 493
2047 A-GCAGAGTTGCAGTGCAGCCGATCA-TGCCACTGCATCCAGCTGGGTGACAGAGC 2104

Qy	Db
494	2105
AAAGACTCCCTCAGAAAAATAAATAAAA	GAGACTCCATTCAAAAAAAGAACTACA
522	2133

RESULT 5
US-09-318-448-5/C

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; Sequence 5, Application US/09318448
; Patent No. 6210950
; GENERAL INFORMATION:
; APPLICANT: Johnson, William G.
; APPLICANT: Steenroos, Edward S.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; FILE OF INVENTION: DEVELOPMENTAL DISORDERS
; CURRENT APPLICATION NUMBER: US/09/318,448
; CURRENT FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 5
; LENGTH: 7720
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-318-448-5

Query Match      28.4%; Score 284; DB 3; Length 7720;
Best Local Similarity 84.9%; Pred. No. 2,1e-55;
Matches 376; Conservative 0; Mismatches 61; Indels 6; Gaps 5;

QY 87 AGCTAGACCCGCGGTGCTACGCTGTAATCCCGACGCTTGAAGAGTGAAGAGGTTG 146
DB 6233 AGGCTGGGTGCAAGTGGCTTACTTGTGTAATCCCGACGCTTGGAGGCAAGGAGTGG 6174
QY 147 ATCACTTGAAGTGAAGAGTTTGAAGCAAGCTGGCCCAACGAGTGAACCCCATCTCTA 206
DB 6173 ATCACTTGAAGTGAAGAGTGAAGCAAGCTGGCCCAACGAGTGAACCCCATCTCTA 6115
QY 207 CTAAATAAATA-AAAAATTAGTGGGTGGGTGGTCTCACTGTAATCCCGACGCTTGG 265
DB 6114 CTAAATAAATAAATAAATTAGGCGGGTGGGTGGTCTCACTGTAATCCCGACGCTTGG 6055
QY 266 GAGGCTGAGAGGCGGTGATCACTGAGTCAAGGCTCAAGGCGGAGGCGGCAACATGG 325
DB 6054 GAGGCGGAGGCGGTGATCACTGAGTCAAGGCTCAAGGCGGAGGCGGCAACATGG 5997
QY 326 TGAACCCAGCTCTCTACTTAATAAATAC-AAAAATTAGCAGGTGTGTGGCAACGCTGT 384
DB 5996 TGAACCCAGCTCTCTACTTAATAAATACAAAAATTAGCAGGTGTGTGGCAACGCTGT 5937
QY 385 AGTCCAGCTACTTGGAGGCTGAGCGGAAGAAATCGCTTGAACCCAGTGAAGAGTT 444
DB 5936 AGTCCAGCTACTTGGAGGCTGAGCGGAAGAAATCGCTTGAACCCAGTGAAGAGTT 5877
QY 445 GCAGTGGCGGAGTAAGAGTCACTGCACTCCAGCCTGGGTGAGCAGAGCAAGACTCCCTC 504
DB 5876 GCAGTGGCGGAGTAAGAGTCACTGCACTCCAGCCTGGGTGAGCAGAGCAAGACTCCATC 5818
QY 505 TCAGAAAAATAAATAAATAAATAA 527
DB 5817 TCAGAAAAATAAATAAATAAATAA 5795

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RESULT 6
US-09-801-861-3/c

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; Sequence 3, Application US/09801861
; Patent No. 6492154
; GENERAL INFORMATION:
; APPLICANT: YAM, Chunhua et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; FILE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; CURRENT APPLICATION NUMBER: US/09/801,861
; CURRENT FILING DATE: 2001-03-09
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 53332
; TYPE: DNA
; ORGANISM: Human

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US-09-801-861-3

Query Match 28.0%; Score 279.6; DB 4; Length 53332;
Best Local Similarity 78.2%; Pred. No. 3e-54;
Matches 373; Conservative 0; Mismatches 100; Indels 4; Gaps 3;

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QY 88 GGCTAGAGCGCGGTGCTCAAGCTGTAATCCCGACGCTTGAAGAGTGAAGAGGTTGA 147
DB 25692 GGCCAGGCGGAGGAGTCAATGTGTAATCCCGAAGCTTGAAGAGGCAAGGAGGGA 25633
QY 148 TCACCTGAGGTGAGAGTTTGAAGCAGCGTGGCCCAACGAGTGAACCCCATCTCTAC 207
DB 25632 TTGCTTGAAGTCCAGAG-TTCGAGACCAAGCTGGCAACATGCAAGACCCCATCTCTAT 25574
QY 208 TAAATAAATAAATAAATTAGTGGGTGGGTGCTCACTGTAATCCCGACGCTTGGGA 267
DB 25573 AAAAAACAAAAA--TGGCCAGGCAAGAGTGGCTCATACCTGTAATCCCGACGCTTGGGA 25516
QY 268 GGCTGAGAGCGGTGATCACTGAGTCAAGAGTCAAGAGGCTCAAGGCGGCAACATGGTG 327
DB 25515 GGCCAGGCAAGGAGTCACTCAAGGTCAGAAATTCAAGCCAGCCTGGCCCAACATGGTG 25456
QY 328 AATCCAGCTCTCTACTTAATAAATAAATAAATTAGCAGGTGTGTGGCAACGCTGTAGT 387
DB 25455 AATCCAGCTCTCTACTTAATAAATAAATAAATTAGCAGGTGTGTGGGTGGCTGTAGT 25396
QY 388 CCAGCTACTTGGAGGCTGAGCGGAGAAATGCTTGAACCCAGTGAAGGAGGTTGCA 447
DB 25395 CCAGCTACTTGGAGGCTGAGCGGAGAAATGCTTGAACCCAGTGAAGGAGGTTGCA 25336
QY 448 GTGAGCGGAGATGAAGTCACTGCACTCCAGCTGGGTGACAGAGCAAGACTCCCTCTCA 507
DB 25335 GTGAGCTGAG-TTGGGCGCACTGCACTCCAGCTGGGTGACAGAGCAAGACTCCCTCTCA 25277
QY 508 GAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATTGTA 564
DB 25276 AATAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 25220

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RESULT 7
US-08-257-963B-10

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; Sequence 10, Application US/08257963B
; Patent No. 5840686
; GENERAL INFORMATION:
; APPLICANT: Chader, Gerald J.; Becerra, S.
; APPLICANT: Patricia, Schwartz, Joan P.;
; APPLICANT: Taniwaki, Takayuki
; TITLE OF INVENTION: PIGMENT EPITHELIUM
; TITLE OF INVENTION: DERIVED FACTOR: CHARACTERIZATION OF ITS NOVEL
; FILE OF INVENTION: BIOLOGICAL ACTIVITY AND SEQUENCES ENCODING
; NUMBER OF SEQUENCES: 42
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Morgan & Finnegan
; STREET: 345 Park Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/257,963B
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/952,796
; FILING DATE: 24-SEPT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: DOROTHY R. AUTH

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?      REGISTRATION NUMBER: 36434
?      REFERENCE/DOCKET NUMBER: 20264126US1
?      TELECOMMUNICATION INFORMATION:
?      TELEPHONE: (212) 758-4800
?      TELEFAX: (212) 751-6849
?      INFORMATION FOR SEQ ID NO: 10:
?      SEQUENCE CHARACTERISTICS:
?          LENGTH: 7210 Base Pairs
?          TYPE: Nucleic Acid
?          STRANDEDNESS: Double
?          TOPOLOGY: Unknown
?      MOLECULE TYPE: Genomic DNA
?      ORIGINAL SOURCE:
?          ORGANISM: Human
?          IMMEDIATE SOURCE:
?              LIBRARY: DASH II
?      FEATURE:
?          NAME/KEY: JT106
?          LOCATION:
?              IDENTIFICATION METHOD:
?                  OTHER INFORMATION: 7.2 kb No. 5840686 1 fragments
?                  OTHER INFORMATION: Derived from human placental genomic DNA
?      US-08-257-963B-10

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Query Match	27.8%	Score	277.8	DB 2	Length	7210			
Best Local Similarity	82.3%	Pred. No.	5.2e-54						
Matches	354	Conservative	0	Mismatches	73	Indels	3	Gaps	3

QY	88	GGCTAGGGGGCGGTGGCTCACGCCCTGTATATCCAGACATTGAAAGGTGGAAGAGGGGTGA	147
Db	3756	GGCCGGGACCGTGGCTCACGCCCTGTATATCCAGACATTTGGGAGCCGAGGACGGCAGA	3815
QY	148	TCACCTTAGAGTCAGAGATTGTTGAGACCAAGCTCGGCCAACACGGTGAATCCCATCTTAC	207
Db	3816	TCACCTTAGAGTCAGAGATGTTGAGACCAAGCTCGGCCAACACGGTGAATCCCATCTTAC	3874
QY	208	TAAATAAT-AAAAATTAGCTGAGGGGGCGGTGGCTCACACTGTATATCCAGACATTGAGG	266
Db	3875	TAAATAATACAAAAATTATGCTGGGACCGGTGGCTGTGCTGTATATCCAGACATTGAGG	3933
QY	267	AGGCTGAGACCGGTGGATCACCTGAAAGTCAGAGATTCAAGGCCAGCTGGGCAATGAT	326
Db	3935	AGGCAAGAGTGGGCGAGATCACTTGAGGTCAAGAGTTGAGACAGCCTAGCAACATGAT	3994
QY	327	GAATCCACGCTCTACTCTAAAAATACAAAAATTAGCCAGGTGGTGGTGGCACAGCCTGTAG	386
Db	3995	GAATCCACGCTCTCTCTAAAACTCAAAAAATTAGCCGAGGTGGTGGTGGCACAGCCTGTAG	4054
QY	387	TCCAGCTACTTGGAGGGCTGAGGCGGAAGATGCTTGAACCCAGTAGGACGAGGTTC	446
Db	4055	TCCAGCCAGTCAGAGAGGCTGAGCGGAGAGAAATCACTGAAATCTGGAGGTGGAGGTGGC	4114
QY	447	AGTAGCCGAGATTAAGAGTCACTGCATCCAGCCTGGGTGACAGAGCAAGCTCCCTTC	506
Db	4115	AGTAGCCGAGAT-AGTACTCTGTACTCCAGCCTGGGGGACAGAGTAGAGCTCCGCTTC	4173
QY	507	AGAAATTA 516	
Db	4174	AAAAAAA 4183	

RESULT 8
 US-08-367-841A-10
 ; Sequence 10. Application US/08367841A
 ; Patent No. 6319687
 ; GENERAL INFORMATION:
 ; APPLICANT: Chader, Gerald J.; Rodriguez,
 ; APPLICANT: Ignacio R.; Mazuruk, Krzysztof;
 ; APPLICANT: Tombrant-Tink, Joyce
 ; TITLE OF INVENTION: PIGMENT EPITHELIUM
 ; TITLE OF INVENTION: DERIVED FACTOR, CHARACTERIZATION GENOMIC
 ; TITLE OF INVENTION: ORGANIZATION AND SEQUENCE OF THE PEDF GENE
 ; NUMBER OF SEQUENCES: 43

CORRESPONDENCE ADDRESS:
ADDRESSEE: Morgan & Finnegan
STREET: 345 Park Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/367,841A
FILING DATE: 30-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/257,963
FILING DATE: 07-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/952,796
FILING DATE: 24-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: DOROTHY R. ADTH
REGISTRATION NUMBER: 36434
REFERENCE/DOCKET NUMBER: 2026412CUS2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 7210 Base Pairs
TYPE: Nucleic Acid
STRANDEDNESS: Double
TOPOLOGY: Unknown
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Human
IMMEDIATE SOURCE:
LIBRARY: DASH II
FEATURE:
NAME/KEY: JT6A
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION: 7.0 kb No. 6319687 1-No. 6319687
OTHER INFORMATION: fragment; Derived from human placental
OTHER INFORMATION: genomic DNA; also referred to as JT106

Query Match	27.8%	Score	277.8	DB	4	Length	7210
Best Local Similarity	82.3%	Pred	No.5,2e-54				
Matches	354	Conservative	0	Mismatches	73	Indels	3
						Gaps	3

QY	88	GGCTAGGCGGGTGGCTCAGCGCCGTATATCCAGACCTTTAGAAAGTGCAGAGAGGTGGA	147
QY	3756	GGCGGGGCACGGTGGCTCAGCGCCGTATGTCACGACCTTTGGGAGGCGCAGAGGCAGCA	3815
Db	148	TCACCTTAGAGTCAGGAGTTTGGAGCACAGCTGGGCCAACACGGTGAACCCCATCTCTAC	207
QY	3816	TCACCTTAGAGTCAGGAG-TTCGAGACCAAGCTGGCTCTAACGAAAGAACCCCGTCTCTAC	3874
Db	208	TAAATAATA-AAAAATTAGCTGCTGGGTGGCGGTGCCTCACACCTGTATATCCAGACCTTTGGG	266
QY	3875	TAAATAATACAAAAATTATAGCTGGGCACGGTGGCTCTGCGCTCTGTATATCCAGACCTTTGGG	3934
Db	267	AGCGTGAAGCGGGTGGATCATCTGAAGTCAAGAGTTCAAGGCCAGCCCTGGGCAACATGGT	326
QY	3935	AGCGAGAGGTGGGCGAGATCATCTGAAGGTCAAGAGTTTGAAGCCAGCCTAGCAACATGGT	3994
Db	327	GAAMCAGCGCTCTACATAAAAAATCAAAAAATTAGCCAGGTGGTGGGCAACGCGCTGAG	386
QY	3995	GAAMCAGCGCTCTCTACATAAAAAATCAAAAAATTAGCCAGGTGGTGGGCACTGCGCTGTAA	4054
Db			


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CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07201
FILING DATE: 06-JUN-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/367,841
FILING DATE: 30-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/257,963
FILING DATE: 07-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/952,796
FILING DATE: 24-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: DOROTHY R. AUTH
REGISTRATION NUMBER: 36434
REFERENCE/DOCKET NUMBER: 20264126PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 22481 Base Pairs
TYPE: Nucleic Acid
STRANDEDNESS: Double
MOLECULE TYPE: Genomic DNA
FEATURE:
NAME/KEY: P1-147
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION: full length genomic
OTHER INFORMATION: sequence for PEDF plus flanking sequences.
PCT-US95-07201-43

Query Match      27.8%; Score 277.8; DB 5; Length 22481;
Best Local Similarity 82.3%; Pred. No. 6.4e-54;
Matches 354; Conservative 0; Mismatches 73; Indels 3; Gaps 3;

QY 88 GGCTAGCGCGGTGGCTCAGCGCTGTATCCAGCACTTTAGAGGTGGAAGAGGTGA 147
DB 3748 GGCCTGGGCAAGGTGGCTCAGCGCTGTATCCAGCACTTTAGAGGTGGAAGAGGTGA 3807
QY 148 TCACCTTAGGTGAGAGTTTGAAGACCAAGCTGGCCAAACGCGTGAACCCCATCTTAC 207
DB 3808 TCACCTTAGGTGAGAG-TTCGAGACCAGCGCTGCTAAACGATGAACCCCGCTCTAC 3866
QY 208 TAAATAA-TA-AAAATTAGCTNGGGTGGGCTCAACCGCTGTATCCAGCACTTTGGG 266
DB 3867 TAAATAATCAAAATAATTAGCTGGGCAAGGTGCTCGCTGTATCCAGCACTTTGGG 3926
QY 267 AGGCTAGAGCGGTGATCACTGAAGTCAAGAGTTCAAGGCCAGCTGGGCAACATGAT 326
DB 3927 AGGCAAGAGGTGGGAGATCACTTAGGTCAAGAGTTGAGCCAGCTTAAGCAACATGAT 3986
QY 327 GAAACACGCTCTTACTTAAATAATCAAAATTAGCCAGGTGTGTGGCAACGCTGTAG 386
DB 3987 GAAACCCCATCTCTACTTAAATACTAACAATAATAGCCGAGGTGTGCAAGTGTGTAA 4046
QY 387 TCCAGCTACTTGGGAGGTGAGGCGGAAGATGCTTGAACCCAGTAGGAGCAAGTTGC 446
DB 4047 TCCAGCTACTGAGAGGTGAGGCGGAAGATGCTTGAAGGTGTGAGGTGGC 4106
QY 447 AGTAGCCGAGATAGAGTCACTGCACTCAGCGCTGGGTGACAGAGCAAGATCTCCCTC 506

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DB 4107 AGTAGCCGAGAT-GGTACTCTGTACTCAGCGGTGGGAGAGAGTGAAGTCCGCTC 4165
QY 507 AGAATAATAA 516
DB 4166 AAAAAAAAAA 4175

RESULT 13
US-09-875-223-2
; Sequence 2, Application US/09875223
; Patent No. 6391850
; GENERAL INFORMATION:
; APPLICANT: No. 6391850thwestern University
; APPLICANT: No. 63918501 Bouck
; APPLICANT: David Dawson
; APPLICANT: Paul Gillis
; TITLE OF INVENTION: Methods and Compositions for Inhibiting Angiogenesis
; FILE REFERENCE: 0290-2303
; CURRENT APPLICATION NUMBER: US/09/875,223
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 09/122,079
; PRIOR FILING DATE: 1998-07-23
; PRIOR APPLICATION NUMBER: PCT/US98/15228
; PRIOR FILING DATE: 1998-07-23
; PRIOR APPLICATION NUMBER: US 08/899,304
; PRIOR FILING DATE: 1997-07-23
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 22484
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: Unsure
; LOCATION: 1...22484
; OTHER INFORMATION: "n" means either a, c, t, or g
US-09-875-223-2

Query Match      27.8%; Score 277.8; DB 4; Length 22484;
Best Local Similarity 82.3%; Pred. No. 6.4e-54;
Matches 354; Conservative 0; Mismatches 73; Indels 3; Gaps 3;

QY 88 GGCTAGCGCGGTGGCTCAGCGCTGTATCCAGCACTTTAGAGGTGGAAGAGGTGA 147
DB 3748 GGCCTGGGCAAGGTGGCTCAGCGCTGTATCCAGCACTTTAGAGGTGGAAGAGGTGA 3807
QY 148 TCACCTTAGGTGAGAGTTTGAAGACCAAGCTGGCCAAACGCGTGAACCCCATCTTAC 207
DB 3808 TCACCTTAGGTGAGAG-TTCGAGACCAGCGCTGCTAAACGATGAACCCCGCTCTAC 3866
QY 208 TAAATAA-TA-AAAATTAGCTNGGGTGGGCTCAACCGCTGTATCCAGCACTTTGGG 266
DB 3867 TAAATAATCAAAATAATTAGCTGGGCAAGGTGCTCGCTGTATCCAGCACTTTGGG 3926
QY 267 AGGCTAGAGCGGTGATCACTGAAGTCAAGAGTTCAAGGCCAGCTGGGCAACATGAT 326
DB 3927 AGGCAAGAGGTGGGAGATCACTTAGGTCAAGAGTTGAGCCAGCTTAAGCAACATGAT 3986
QY 327 GAAACACGCTCTTACTTAAATAATCAAAATTAGCCAGGTGTGTGGCAACGCTGTAG 386
DB 3987 GAAACCCCATCTCTACTTAAATACTAACAATAATAGCCGAGGTGTGCAAGTGTGTAA 4046
QY 387 TCCAGCTACTTGGGAGGTGAGGCGGAAGATGCTTGAACCCAGTAGGAGCAAGTTGC 446
DB 4047 TCCAGCTACTGAGAGGTGAGGCGGAAGATGCTTGAAGGTGTGAGGTGGC 4106
QY 447 AGTAGCCGAGATAGAGTCACTGCACTCAGCGCTGGGTGACAGAGCAAGATCTCCCTC 506
DB 4107 AGTAGCCGAGAT-GGTACTCTGTACTCAGCGGTGGGAGAGAGTGAAGTCCGCTC 4165
QY 507 AGAATAATAA 516

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Db 4166 AAAAAAAAAA 4175

RESULT 14

US-09-741-150-3
; Sequence 3, Application US/09741150

; GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: GUEGLER,

APPLICANT: GUEGLER, Karl et al

TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS

1. TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,

TITLE OF INVENTION: ISOLATED HUMAN
TITLE OF INVENTION: ISOLATED HUMAN

TITLE OF INVENTION: NUCLEIC ACID

1. TITLE OF INVENTION: NUCLEIC ACID MOLECULE

TITLE OF INVENTION: NUCLEIC ACID

TITLE OF INVENTION: USES THEREOF

; TITLE OF INVENTION: USES THEREOF

TITLE OF INVENTION
; TITLE OF INVENTION
; TITLE OF INVENTION

FILE REFER

FILE REFERENCE:

FILE REFERENCE:
CITIZEN ABJICAT

CURRENT APPLICATION NUMBER

CURRENT APPLICATION NUMBER

CURRENT APPLICATION NUMBER: US/09/
FILING DATE: 2000-12-31

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? NUMBER OF SEQ ID NOS: 4
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 3
? LENGTH: 112132
? TYPE: DNA
? ORGANISM: Human
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: (1)..(112132)
? OTHER INFORMATION: n = A,T,C or G
? OS-09-741-150-3

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Query Match	27.6%	Score 275.6	DB 4	Length 112132
Best Local Similarity	79.9%	Pred. No. 2.7e	53	
Matches 373	Conservative 0	Mismatches 90	Indels 4	Gaps 4
QY 89	GCTAGGCGCGGTGCTCAGCGCTGTATCCACACACTTTGAAAGTCGAAAGGCGGAT	148		
Db 90602	GCTGGAAGTGTGGCTCACAACCTGTATCCCAACATATGGAAAGCTGAGGCAAGCAT	90662		
QY 149	CACCTGAGTCAGAGAGTTTGAAGCCAGCCTGSCCAAACGCTGAACCCCATCTTACT	208		
Db 90662	CACCTGAGTCAGAGAG-TTCAAAGCACGCTGTGTAACAATGTGAACCCCGCTTACT	90720		
QY 209	AAAAAT-AAAAATTAGCTMGSGTGGGTGGCTCACCCTGTATATCCCAAGCTTTGGGA	267		
Db 90721	AAAAATCAAAACATTAGGCCAGGCTCATGTGGCTCACCCTGTATATCCCAAGCTTTGGGA	90780		
QY 268	GGCTGAGACGGGTGGATCACCTGAAGTCAGAGTCAAGGSCCAGCCTGGGCAACATGGG	327		
Db 90781	GGCTGAGGTGGGCGGATCACCTGAAGTCAGAGTTCAGACACGCTGGGCAACATGGG	90840		
QY 328	AAACCAAGTCTCTACTAAAAATACAAAATTAGCCAGGTGTGGTGACAACGCGCTTACT	387		
Db 90841	AAACCCATCTCTACTAAAAATCAAAATTAGCTGGGCAATGTGGCAATGCTTACT	90900		
QY 388	CCGAGTACTTGGGAGGCTGAGGCGGAAGATGCTTGAACCCAGTAGGCAGAGTTGCA	447		
Db 90901	CCGAGCTAC-AGGAGAGTTGAGCAGGAGAAATGCTTGAACCCAGGAGGTGAGTTGCA	90955		
QY 448	GTGAGCCGAATTAAGATCACTGCATCTCCAGCCTGGGTGACAGAGCAAGACTCTCTCTCA	507		
Db 90960	GTGAGCCATAT-TGTGGCACTACAGCGCCGCTGGGTGACAGAGCAAGACTCTCTCTCA	91018		
QY 508	GAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	554		
Db 91019	AAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	91065		

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; FILE REFERENCE: CL0000904
; CURRENT APPLICATION NUMBER: US/09/729,999
; CURRENT FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0.C
; SEQ ID NO 3
; LENGTH: 29629
; TYPE: DNA
; ORGANISM: Human
US-09-729-995-3

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Query Match	27.3%	Score 272.6	DB 4	Length 29629
Best Local Similarity	79.7%	Pred. No. 1e-52		
Matches 370	Conservative 0	Mismatches 90	Indels 4	Gaps 4

Search completed: October 9, 2003, 15:07:41
Job time : 69 secs

LENGTH: 1000 bp
 TYPE: Nucleic Acid
 STRANDEDNESS: Double
 TOPOLOGY: Circular
 MOLECULE TYPE: Genomic DNA
 HYPOTHETICAL: no
 IMMEDIATE SOURCE:
 CLONE: 5132
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: 22
 SEQUENCE DESCRIPTION: SEQ ID NO: 32
 US-09-784-423-32

Query Match 99.9%; Score 999; DB 9; Length 1000;
 Best Local Similarity 100.0%; Pred. No. 7.1e-241;
 Matches 1000; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GGTGTACCTTATCTCTCTGAACCTCACTTCTCATCCGTAAATGAAAAGCTGCTAG 60
DB 1 GGTGTACCTTATCTCTCTGAACCTCACTTCTCATCCGTAAATGAAAAGCTGCTAG 60
QY 61 ATTGTGTAAAAAATTAAATGATAGGCTAGGGGGGGCTCAGGCTGTAAATCCA 120
DB 61 ATTGTGTAAAAAATTAAATGATAGGCTAGGGGGGGCTCAGGCTGTAAATCCA 120
QY 121 GCACTTTAGAAAGTGAAGAGGGTGAATCACTTGAAGTCAAGAGTTTGAAGCAGCCTG 180
DB 121 GCACTTTAGAAAGTGAAGAGGGTGAATCACTTGAAGTCAAGAGTTTGAAGCAGCCTG 180
QY 181 GCCAACACGGTGAACCCCATCTCTACTAAAAATTAATGCTNGGGTGGCT 240
DB 181 GCCAACACGGTGAACCCCATCTCTACTAAAAATTAATGCTNGGGTGGCT 240
QY 241 CACACCTGTATCCAGACCTTTGGAGGCTGAGACGGGTGGATCACCTGAAGTCAGAG 300
DB 241 CACACCTGTATCCAGACCTTTGGAGGCTGAGACGGGTGGATCACCTGAAGTCAGAG 300
QY 301 TTCAAGGCGACGCTGGGCAATGTGTAAACCACTCTCTAATAAATAAATAAATTAG 360
DB 301 TTCAAGGCGACGCTGGGCAATGTGTAAACCACTCTCTAATAAATAAATAAATTAG 360
QY 361 CCAGGTGTGTGGACACGCTGTAGTCCAGACTTCTTGGAGGCTGAGGCGAAAGATC 420
DB 361 CCAGGTGTGTGGACACGCTGTAGTCCAGACTTCTTGGAGGCTGAGGCGAAAGATC 420
QY 421 GCTTGAACCCAGTAGGAGGTTGACGTGAGCCGAGTAAGATCACTGCACTCCAGCC 480
DB 421 GCTTGAACCCAGTAGGAGGTTGACGTGAGCCGAGTAAGATCACTGCACTCCAGCC 480
QY 481 TGGGTGACAGAGCAAGACTCCCTCTCAGAAAATTAATAAATAAATAAATAAATAA 540
DB 481 TGGGTGACAGAGCAAGACTCCCTCTCAGAAAATTAATAAATAAATAAATAAATAA 540
QY 541 AATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 600
DB 541 AATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 600
QY 601 AGTAATGATCAATATCCCAACCCCTACACCTGACCTGAATTTAGTTTCTTTTGTG 660
DB 601 AGTAATGATCAATATCCCAACCCCTACACCTGACCTGAATTTAGTTTCTTTTGTG 660
QY 661 ACCCCCATTTAGACTTAAGGAGCAATTTCTACACCTGACCTGTAATTTCTGTTCT 720
DB 661 ACCCCCATTTAGACTTAAGGAGCAATTTCTACACCTGACCTGTAATTTCTGTTCT 720
QY 721 GGCACATAGTTGGTCTCAGTGAACCATGTGAGTGAATGACAAATGCAAGAAATTC 780
DB 721 GGCACATAGTTGGTCTCAGTGAACCATGTGAGTGAATGACAAATGCAAGAAATTC 780
QY 781 AGGCATCTGGAGGAGCCCTCCAGGCGGGTGAAGTTCCGGAATCATATGCTGCTCAAT 840
DB 781 AGGCATCTGGAGGAGCCCTCCAGGCGGGTGAAGTTCCGGAATCATATGCTGCTCAAT 840

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QY 841 GGCCCACTGAAGTAGAGATTCTGGGTCCACCTTCGCAACCCCATCTCTGACTCAC 900
DB 841 GGCCCACTGAAGTAGAGATTCTGGGTCCACCTTCGCAACCCCATCTCTGACTCAC 900
QY 901 TGTGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 960
DB 901 TGTGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 960
QY 961 CAGGACTGCAAGAGCCGACAGAGATGATGACCGGCTGC 1000
DB 961 CAGGACTGCAAGAGCCGACAGAGATGATGACCGGCTGC 1000

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RESULT 2

US-09-764-877-3773/c
 Sequence 3773, Application US/09764877
 Patent No. US20020147140X1
 GENERAL INFORMATION:
 APPLICANT: Rosen et al.
 TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 FILE REFERENCE: PC005
 CURRENT APPLICATION NUMBER: US/09/764,877
 CURRENT FILING DATE: 2001-01-17
 Prior application data removed - refer to PALM or file wrapper
 NUMBER OF SEQ ID NOS: 4031
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 3773
 LENGTH: 7017
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-764-877-3773

Query Match 32.0%; Score 320.2; DB 10; Length 7017;
 Best Local Similarity 84.6%; Pred. No. 5.2e-70;
 Matches 406; Conservative 0; Mismatches 69; Indels 5; Gaps 4;

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QY 86 TAGGCTAGGCGCGGTGCTCAGCTCTGTATATCCAGACCTTTGAAGTGAAGAGGTG 145
DB 4509 TGGGCCAGACGCGGTGCTCAGCTCTGTATATCCAGACCTTTGAAGTGAAGAGGTG 4450
QY 146 GATCAGTGAAGTGAAGAGTGTGAGACCAAGCTGCGCAACAGGTAAGAACCCATCTCT 205
DB 4449 GATCAGTGAAGTGAAGAGTGTGAGACCAAGCTGCGCAACAGGTAAGAACCCATCTCT 4391
QY 206 ACTAAAAATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 265
DB 4390 ACTAAAAATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4331
QY 266 GAGGCTGAGACGCGGTGATCACTGAAGTCAAGAGTTCAAGGCGAGCTGGCAATGG 325
DB 4330 GAGGCTGAGACGCGGTGATCACTGAAGTCAAGAGTTCAAGGCGAGCTGGCAATGG 4273
QY 326 TGAACCAAGTCTCTCTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 385
DB 4272 TGAACCAAGTCTCTCTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4213
QY 386 GTCCAGCTACTTTGAGAGCTGAGGCGAAGATCGCTTGAACCCAGTGAAGAGGTG 445
DB 4212 GTCCAGCTACTTTGAGAGCTGAGGCGAAGATCGCTTGAACCCAGTGAAGAGGTG 4153
QY 446 CAGTGAACCGAGTAAGTCACTGCACTCCAGCTGGGTGACAGAGCAAGTCCCTCT 505
DB 4152 CAGTGAACCGAGTCACTGCACTCCAGCTGGGTGACAGAGCAAGTCCCTCT 4094
QY 506 CAGAAAAATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 565
DB 4093 CAGAAAAATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4035

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RESULT 3

US-09-764-877-3774/c
 Sequence 3774, Application US/09764877
 Patent No. US20020147140X1


```

; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; PRIOR APPLICATION DATE: 2001-01-17
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3774
; LENGTH: 20522
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-764-877-3774

```

Query Match 32.0%; Score 320.2; DB 10; Length 20522;

Best Local Similarity 84.6%; Pred. No. 8,4e-70; Mismatches 69; Indels 5; Gaps 4;

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Matches 406; Conservative 0; Mismatches 69; Indels 5; Gaps 4;
QY 86 TAGGCTAGGCGCGGCTGCTCAGCGCTGTATCCAGACCTTTAGAAAGTGAAGAGGCTG 145
DB 10327 TGGGCCAGAGCGGCTGGCTCAGACCTGTTATCCAGACCTTTGGAAGCGGAGGCTG 10268
QY 146 GATCACTTGAAGTCAAGAGTTTGAAGACCGCTGGCAACGCGTGAACCCCATCTCT 205
DB 10267 GATCACCTGAGACCAAGAG-TTCGAGACCGAGCTGGCAACATGTGTGAACCTCGCTCT 10209
QY 206 ACTAAAAATAAAAAATTAGCTGAGGCTGAGGCTGCTCAGACCTGTATCCAGACCTTTG 265
DB 10208 ACTAAAAATAAAAAATTAGCTGAGGCTGAGGCTGCTCAGACCTGTATCCAGACCTTTG 10149
QY 266 GAGGCTGAGACGGGTGATCAGCTGAAGTCAAGAGTTCAGAGCGAGCTGGGCAAGATG 325
DB 10148 GAGGCCAAGCGCGGCGAGATCA--TGAGGTCAAGAGTGAAGACCATCTGCTGAACATG 10091
QY 326 TGAACCAAGCTCTCTACTAAAAATACAAAAATTAGCCAGGTGTGTGGCACACGCTGTA 385
DB 10090 TGAACCGGCTCTCTACTAAAAATACAAAAATTAGCCAGGTGTGTGGCACACGCTGCA 10031
QY 386 GTCCCGACTACTTGGAGGCTGAGGCGGGAAGATCGTTGAACCCAGTGGCAGAGGTTG 445
DB 10030 GTCCCGACTACTTGGAGGCTGAGGCGGGAAGATCGTTGAACCCAGTGGCAGAGGTTG 9971
QY 446 CAGTGAGCGAGATAAGAGTCACTGCACTCCAGCTGGGTGAAGAGCAAGACTCCCTCT 505
DB 9970 CAGTGAGCGAGATCA-CGACACTGCACTCCAGCTGGGCAAGAGCGAGATCCGCTCT 9912
QY 506 CAGAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 565
DB 9911 CA-AAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 9853

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RESULT 4
US-10-017-161-1603/C
Sequence 1603, Application US/10017161
Publication No. US2003014368A1

```

; GENERAL INFORMATION:
; APPLICANT: SUMA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; PRIOR APPLICATION DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1603
; LENGTH: 17588
; TYPE: DNA
; ORGANISM: Homo sapiens

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; FEATURE:
; NAME/KEY: source
; LOCATION: (1)..(17588)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (201)..(386)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (660)..(873)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (2637)..(3270)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (3360)..(3460)
; NAME/KEY: CDS
; LOCATION: (12023)..(12329)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (17307)..(17388)
; NAME/KEY: modified base
; LOCATION: (6225)..(6324)
; OTHER INFORMATION: a, t, c, g, unknown or other
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (12380)..(12479)
; OTHER INFORMATION: a, t, c, g, unknown or other
; US-10-017-161-1603

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Query Match 31.2%; Score 311.8; DB 12; Length 17588;

Best Local Similarity 80.6%; Pred. No. 1e-67; Mismatches 93; Indels 3; Gaps 3;

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Matches 400; Conservative 0; Mismatches 93; Indels 3; Gaps 3;
QY 61 ATTGTTGTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 120
DB 15288 ATTGTTGTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 15229
QY 121 GCACTTTAAGAAGTGAAGAGGTGATCATCTGAGGTGAGAGTTTGAACCGAGCTG 180
DB 15228 GCACTTTGAGAGCCAAAGTGGTGTATCATTTGAGCGCAGAG-TTTGAACCGAGCTG 15170
QY 181 GCCAACACGGTAAACCCCATCTCTACTAAAAATAAATAAATAAATAAATAAATAAATAA 240
DB 15169 GCCAACATGGCAAACTCTGTCTACTAAAAATAAATAAATAAATAAATAAATAAATAA 15110
QY 241 CACACCTGTAATCCAGCACTTTGGAGGCTGAGAGCGGTGATCACTGAAGTCAGAG 300
DB 15109 CACACCTGTAATCCCAACACTTTGGAGGCGGAGCGGAGTTTACCTGAGGTCAAGAG 15050
QY 301 TTCAAGCGCAGCGCTGGGCAACATGGTGAACCAACGCTCTACTAAAAATAAATAAATAA 360
DB 15049 TTCAAGCAAGTCTGGCCAAATATGGTGAACCCCATCTCTACTAAAAATAAATAAATAA 14990
QY 361 CCAGGTGTGTGGCAACCGCTGTAGTCCAGCTACTTTGGAGGCTGAGCGGAGAAATC 420
DB 14989 CCGGTGTGTGGCAACCGCTGTATCCAGCTACATGGAGGCTGAGCGGAGAAATC 14930
QY 421 GCTTGAACCCAGTAGGAGAGGTGAGTGAAGCCGAGATGAAGTCACTGCACCTCAGGC 480
DB 14929 ACTTGAACCCAGAGAGAGAGGTGAGTGAAGCCAGAT-CTGCGCACTGCACCTCAGGC 14871
QY 481 TGGGTGACAGACCAAGCTCCCTCCAGAAATAAATAAATAAATAAATAAATAAATAA 540
DB 14870 T-GGCAACAGACCAAGCTCTGTCTCAAAATAAATAAATAAATAAATAAATAAATAA 14812
QY 541 AATAAAAATAAATAAATAA 556
DB 14811 AATAAAAATAAATAAATAA 14796

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RESULT 5

Query Match	30.7%;	Score 307;	DB 10;	Length 174424;
Best Local Similarity	83.1%;	Pred. No. 4.6e-66;		
Matches 409;	Conservative	0;	Mismatches 76;	Indels 7;
				Gaps 5

	581	AATATAAATCTCA	582
Gy			
Db	131690	AACAAAAAATTA	131679

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; TITLE OF INVENTION: Identifying Drugs for and Diagnosis of Benign Prostatic Hyperplas
; TITLE OF INVENTION: Gene Expression Profiles

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Query Match	30.7%;	Score 307;	DB 12;	Length 17442;
Best Local Similarity	83.1%;	Pred. No. 4.6e-66;		
Matches 409;	Conservative	0;	Mismatches 76;	Indels 7;
				Gaps 5;

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; PRIOR FILING DATE: 2001-
 ; NUMBER OF SEQ ID NOS: 96

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; SEQ ID NO 16
; LENGTH: 113000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: exon:intron junction
; LOCATION: (465)...(466)
; OTHER INFORMATION: exon 1A:intron 1A
; FEATURE:
; NAME/KEY: intron
; LOCATION: (466)...(1642)
; OTHER INFORMATION: intron 1A
; FEATURE:
; NAME/KEY: intron:exon junction
; LOCATION: (1642)...(1643)
; OTHER INFORMATION: intron 1A:exon 2
; FEATURE:
; NAME/KEY: intron
; LOCATION: (7788)...(34703)
; OTHER INFORMATION: intron 4
; FEATURE:
; NAME/KEY: intron
; LOCATION: (44331)...(55287)
; OTHER INFORMATION: intron 1B
; FEATURE:
; NAME/KEY: intron:exon junction
; LOCATION: (55287)...(55288)
; OTHER INFORMATION: intron 1B:exon 9
; FEATURE:
; NAME/KEY: intron:exon junction
; LOCATION: (58209)...(58210)
; OTHER INFORMATION: intron 9:exon 10
; FEATURE:
; NAME/KEY: exon:intron junction
; LOCATION: (81137)...(81138)
; OTHER INFORMATION: exon 13:intron 13
; FEATURE:
; NAME/KEY: intron
; LOCATION: (81138)...(88683)
; OTHER INFORMATION: intron 13
; FEATURE:
; NAME/KEY: intron
; LOCATION: (88818)...(103212)
; OTHER INFORMATION: intron 14
; FEATURE:
; NAME/KEY: exon:intron junction
; LOCATION: (105293)...(105294)
; OTHER INFORMATION: exon 16:intron 16B
; FEATURE:
; NAME/KEY: intron:exon junction
; LOCATION: (110433)...(110434)
; OTHER INFORMATION: intron 16B:exon 17B
; FEATURE:
; NAME/KEY: exon
; LOCATION: (110434)...(111661)
; OTHER INFORMATION: exon 17B
US-10-376-566-16

Query Match      30.4%; Score 304.2; DB 12; Length 113000;
Best Local Similarity 81.2%; Pred. No. 1.9e-65;
Matches 377; Conservative 0; Mismatches 84; Indels 3; Gaps 2;

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QY 251 ATCCGAGCACTTTGGAGGCTGAGACGGGTGATCACTGTAAGTCAAGGATCAAGGCCA 310
DB 10922 ATCCGAGCACTTTGGAGGCAAGAGTGGGAGATCACTGATCTCAGAGTTGAGATCA 10863
QY 311 GCTGGGCAACATGTGGAACCAAGTCTCTACTATAAAATTAACCAAGGTGTGG 370
DB 10862 GCTGGCCAAACATGGTGAACCCCGTCTCTACTATAAAATTAACCAAGGTGTGG 10803
QY 371 TGGCAGACGCTGTAGTCCAGCTACTTGGAGGCTGAGGCGGGAAGATGCTTAAGCC 430
DB 10802 TGAAGGCTCTCTGTATCCAGTACTCGGAGACTGAGGCAAGAAATTTGTAACCC 10743
QY 431 AGTAGCAGAGGTTGAGTGAGCCGAGATTAAGATCACTGCCAGCTGGGTGACAG 490
DB 10742 AGGAGCGGAGGTTGAGTGAAGCAAGATTA--ATGCAACACACTCCAGCTGGGCAAG 10685
QY 491 AGCAAGACTCCCTCTAGAAATTAATTAATTAATTAATTAATTAATTAATTAATTA 534
DB 10684 AGCAAGACCCCACTCAAAATTAACAAATTAACAAACAAAAATTA 10641

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RESULT 8
US-10-017-161-1605/c
; Sequence 1605, Application US/10017161
; Publication No. US20030143668A1
; GENERAL INFORMATION:
; APPLICANT: SUMA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver..2.1
; SEQ ID NO 1605
; LENGTH: 27087
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: source
; LOCATION: (1)..(27087)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (201)..(498)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (834)..(923)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7389)..(7511)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (13053)..(13140)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (19148)..(19452)
; NAME/KEY: CDS
; LOCATION: (26643)..(26887)
US-10-017-161-1605

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Query Match      30.3%; Score 303.4; DB 12; Length 27087;
Best Local Similarity 82.5%; Pred. No. 1.6e-65;
Matches 383; Conservative 0; Mismatches 77; Indels 4; Gaps 3;

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QY 86 TAGGCTAGGCGCGGTGCTCAGCCCTGTAATCCAGCAGCTTTAGAGGTGAGAGGGTG 145
 DB 8635 TGGGCCAGAGTGGCGGTGGCCAGCCTGTAATCCAGCAGCTTTGGAGAGCCTAGAGGGCG 8576
 QY 146 GATCATTGAGGTGAGAGGTTTGAACACAGCTGGCCACACGGTGAACCCCATCTCT 205
 DB 8575 GATCACCCTGAGGTGAGAG-ATTGAGACACAGCTGGCCACACAGTGAACCCCTGACTCT 8517
 QY 206 ACTAAATAATTAATGATAGCTGGGTGGGTGCTCAGCTGTAATCCAGCAGCTTTGG 265
 DB 8516 ACTAAATAATTAATGATAGCTGGGTGGGTGCTCAGCTGTAATCCAGCAGCTTTGG 8457
 QY 266 GAGGCTGAGACGGGTGATGATCACTGAAGTCAAGAGTTCAAGCCAGCTGGCCAGCATG 325
 DB 8456 GAGGCCGAGGACAGCAGATCA--TGAGGTGAGAGTTCAAGACAGCTGACCAACATAG 8399
 QY 326 TGAATCCAGCTCTTACTTAATAATAATTAATGAGGTGAGGTGAGTGAACGGCTGTA 385
 DB 8398 GGAATCCCGTCTCTTACTTAATAATAATTAATGAGGTGAGGTGAGTGAACGGCTGTA 8339
 QY 386 GTCCCACTACTTGGAGGCTGAGGCGGAAGATCGCTGTAACCAAGTGAAGAGGTTG 445
 DB 8338 GTCCCACTACTTGGAGGCTGAGGCGGAAGATCGCTGTAACCAAGTGAAGAGGTTG 8279
 QY 446 CAGTGAGCCGAGATGAGTCACTGCACTCCAGCTGGGTGAGCAGAGCAAGACTCCCTCT 505
 DB 8278 CAGTGAGCCGAGAT-AGCTCCAGTGCACCTCCAGCTGGGTGAGCAGAGCAAGACTCTCT 8220
 QY 506 CAGATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 549
 DB 8219 CAAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 8176

RESULT 9

US-09-967-768A-314
 ; Sequence 314, Application US/09967768A
 ; Patent No. US20020150877A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Augustus, Meena
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
 ; FILE REFERENCE: 689290-72
 ; CURRENT APPLICATION NUMBER: US/09/967,768A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: US/60/236,109
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US/60/236,034
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US/60/236,111
 ; PRIOR FILING DATE: 2000-09-28
 ; NUMBER OF SEQ ID NOS: 325
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 314
 ; LENGTH: 174424
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-967-768A-314

Query Match 30.1%; Score 301.4; DB 10; Length 174424;
 Best Local Similarity 81.7%; Pred. No. 1.2e-64;
 Matches 397; Conservative 0; Mismatches 82; Indels 7; Gaps 4;
 QY 70 AAAAAATTAATGAATAGCTAGGCGCGGTGCTCAGCCTGTAATCCAGCAGCTTTAG 129
 DB 69715 AAAAAATTAATGAATAGCTAGGCGCGGTGCTCAGCCTGTAATCCAGCAGCTTTAG 69774
 QY 130 AAGGTGAGAGGAGGTGATCACTTGAAGTCAAGAGTTTGAAGACAGCCTGGCCAAACAG 189
 DB 69775 GAGGCTGAGGAGGAGTCACTTGAAGTCAAGAGTTTGAAGACAGCCTGGCCAAACAG 69833
 QY 190 GTGAATCCAGCAGCTTTGGAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAAG 246
 DB 69834 GTGAATCCAGCAGCTTTGGAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAAG 69893

QY 247 TGTATCCAGCAGCTTTGGAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAAG 306
 DB 69894 TGTATCCAGCAGCTTTGGAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAAG 69953
 QY 307 GCCAGCCTGGGCAACATGTTGAACCAAGTCTTACTTAATAATAATAATAATAATAATA 366
 DB 69954 ACCAGCCTGGGCAACATGTTGAACCAAGTCTTACTTAATAATAATAATAATAATAATA 70013
 QY 367 GTGTGGGACAGCCCTGTATGATCCAGCTACTTGGAGGCTGAGGCGGAAGATCGCTGA 426
 DB 70014 GTGTGGGACAGCCCTGTATGATCCAGCTACTTGGAGGCTGAGGCGGAAGATCGCTGA 70073
 QY 427 ACCAGTGAAGCAGAGGTTGAGTGAAGCCAGATGAAGTCACTGCACTCCAGCTGGGTG 486
 DB 70074 ACCTGGAGGACAGAGTGAAGTGAAGCCAGCAT-TGGGCACTGCACTTGAAGCTGGGCG 70132
 QY 487 ACAGAGCAAGTCTCTCTCAGAAATTAATAATAATAATAATAATAATAATAATAATA 546
 DB 70133 ACAGAGCAAGTCTCTCTCAGAAATTAATAATAATAATAATAATAATAATAATAATA 70190
 QY 547 ATAAA 552
 DB 70191 TAAAA 70196

RESULT 10

US-09-960-706-969
 ; Sequence 969, Application US/09960706
 ; Publication No. US20030134280A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Munger, William E.
 ; TITLE OF INVENTION: Identifying Drugs for and Diagnosis of Benign Prostatic Hyperplasi
 ; FILE REFERENCE: 44921-5029-01US
 ; CURRENT APPLICATION NUMBER: US/09/960,706
 ; CURRENT FILING DATE: 2001-09-24
 ; PRIOR APPLICATION NUMBER: 60/223,323
 ; PRIOR FILING DATE: 2000-08-07
 ; PRIOR APPLICATION NUMBER: 09/873,319
 ; PRIOR FILING DATE: 2001-06-05
 ; NUMBER OF SEQ ID NOS: 1124
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 969
 ; LENGTH: 174424
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: Genbank Accession No. US20030134280A1 US2112
 ; US-09-960-706-969

Query Match 30.1%; Score 301.4; DB 12; Length 174424;
 Best Local Similarity 81.7%; Pred. No. 1.2e-64;
 Matches 397; Conservative 0; Mismatches 82; Indels 7; Gaps 4;
 QY 70 AAAAAATTAATGAATAGCTAGGCGCGGTGCTCAGCCTGTAATCCAGCAGCTTTAG 129
 DB 69715 AAAAAATTAATGAATAGCTAGGCGCGGTGCTCAGCCTGTAATCCAGCAGCTTTAG 69774
 QY 130 AAGGTGAGAGGAGGTGATCACTTGAAGTCAAGAGTTTGAAGACAGCCTGGCCAAACAG 189
 DB 69775 GAGGCTGAGGAGGAGTCACTTGAAGTCAAGAGTTTGAAGACAGCCTGGCCAAACAG 69833
 QY 190 GTGAATCCAGCAGCTTTGGAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAAG 246
 DB 69834 GTGAATCCAGCAGCTTTGGAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAAG 69893
 QY 247 TGTATCCAGCAGCTTTGGAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAAG 306
 DB 69894 TGTATCCAGCAGCTTTGGAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAAG 69953
 QY 307 GCCAGCCTGGGCAACATGTTGAACCAAGTCTTACTTAATAATAATAATAATAATAATA 366

Db 69954 ACCAGCTGGACATATGTGTAACCTGTCTACTTAATAAATCAACCAAGC 70013
 Qy 367 GTGTGGCAGCAGCTGTAGTCCAGCTACTTGGAGGCTGAGCGGAGAAATGCTTGA 426
 Db 70014 GTGTGGCGGGGCACTGTATCCAGCTACTCAGAGGCTGAGGAGAAATGCTTGA 70073
 Qy 427 ACCCAATGAGCAGAGTTGAGAGGCGGAGATGAGTACTGCACTCCAGCTGGGTG 486
 Db 70074 ACTTGGAGGCGAGAGGTTGAGAGGCGGAGAT-TGGCGCACTGCACTTGGCTGGGCG 70132
 Qy 487 ACAGAGCAAGTCCCTCTCAGAAATTAATAAATAAATAAATAAATAAATAA 546
 Db 70133 ACAGAGCAAGTCTGTCTCAAAAATAAATAAATAAATAAATAAATAAATAA 70190
 Qy 547 ATAAAA 552
 Db 70191 TAAAAA 70196

RESULT 11
 US-09-729-094-3
 ; Sequence 3, Application US/09729094
 ; Patent No. US20020019028A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CHATURVEDI, Kabir et al
 ; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
 ; FILE REFERENCE: CL000662
 ; CURRENT APPLICATION NUMBER: US/09/729,094
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 32816
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-729-094-3

Query Match 30.1%; Score 300.6; DB 9; Length 32816;
 Best Local Similarity 80.3%; Pred. No. 8.7e-65;
 Matches 376; Conservative 0; Mismatches 90; Indels 2; Gaps 2;

Qy 85 ATAGGCTAGCGCGGTGCTCAGCCTGTATCCAGCACTTGAAGAGTGAAGAGGT 144
 Db 16124 ACAGGCGGGGCGAGAGGCTCAACCTGTATCCCAACATTTTGGAGGCGAGGTGGG 16183
 Qy 145 GATCACTTGAAGTCAAGATTTTGAAGCAAGCTGGCCAAACGGTGAACCCATCTC 204
 Db 16184 AGATCCCTGAGGTCAAGAG-TTTGTAACCAAGCTGGCCAAACATGTGTAACCCCGTCTC 16242
 Qy 205 TACTAAAAATAAATAAATTAAGCTMGGGTGGGTGCTCAACCTGTATCCAGCACTTTG 264
 Db 16243 TACTAAAAATAAATAAATTAAGCGGGGTGTAAGCCAGCTGTAAATCCAGCACTTTG 16302
 Qy 265 GAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAGAGCCAGCTGGCAACATG 324
 Db 16303 GAGGCGCAAGAGAGGGGATCGCTGAGTCAAGAGTCAAGAGCTGGGCAACATG 16362
 Qy 325 GTGAAACCAAGCTCTTCACTAATAAATAAATAAATAAATAAATAAATAAATAA 384
 Db 16363 GTGAAACCCCATCTTCACTAATAAATAAATAAATAAATAAATAAATAAATAA 16422
 Qy 385 AGTCCAGCTACTTGGAGGCTGAGGCGGAGAAATGCTTGAACCAAGTGAAGAGGTT 444
 Db 16423 AACCCAGCTACTTGGAGGCTGAGGCGGAGAAATGCTTGAACCGGAGGAGAGGTT 16482
 Qy 445 GAGTGAAGCGGAGATGAAGTCACTGCACTCCAGCTGGGTGAAGAGCAAGACTCCCTC 504
 Db 16483 GAGTGAAGCGGAGATGAAGTCACTGCACTCCAGCTGGGCGAGAGCAAGACTCTGTC 16541
 Qy 505 TCAGAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 552

Db 16542 TCAGAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 16589

RESULT 12
 US-10-435-631-3
 ; Sequence 3, Application US/10435631
 ; Publication No. US20030186381A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CHATURVEDI, Kabir et al
 ; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
 ; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
 ; FILE REFERENCE: CL000662CON
 ; CURRENT APPLICATION NUMBER: US-10/435,631
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 32816
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-435-631-3

Query Match 30.1%; Score 300.6; DB 12; Length 32816;
 Best Local Similarity 80.3%; Pred. No. 8.7e-65;
 Matches 376; Conservative 0; Mismatches 90; Indels 2; Gaps 2;

Qy 85 ATAGGCTAGCGCGGTGCTCAGCCTGTATCCAGCACTTGAAGAGTGAAGAGGT 144
 Db 16124 ACAGGCGGGGCGAGAGGCTCAACCTGTATCCCAACATTTTGGAGGCGAGGTGGG 16183
 Qy 145 GATCACTTGAAGTCAAGATTTTGAAGCAAGCTGGCCAAACGGTGAACCCATCTC 204
 Db 16184 AGATCCCTGAGGTCAAGAG-TTTGTAACCAAGCTGGCCAAACATGTGTAACCCCGTCTC 16242
 Qy 205 TACTAAAAATAAATAAATTAAGCTMGGGTGGGTGCTCAACCTGTATCCAGCACTTTG 264
 Db 16243 TACTAAAAATAAATAAATTAAGCGGGGTGTAAGCCAGCTGTAAATCCAGCACTTTG 16302
 Qy 265 GAGGCTGAGACGGGTGATCACTGAAGTCAAGAGTTCAGAGCCAGCTGGCAACATG 324
 Db 16303 GAGGCGCAAGAGAGGGGATCGCTGAGTCAAGAGTCAAGAGCTGGGCAACATG 16362
 Qy 325 GTGAAACCAAGCTCTTCACTAATAAATAAATAAATAAATAAATAAATAAATAA 384
 Db 16363 GTGAAACCCCATCTTCACTAATAAATAAATAAATAAATAAATAAATAAATAA 16422
 Qy 385 AGTCCAGCTACTTGGAGGCTGAGGCGGAGAAATGCTTGAACCAAGTGAAGAGGTT 444
 Db 16423 AACCCAGCTACTTGGAGGCTGAGGCGGAGAAATGCTTGAACCGGAGGAGAGGTT 16482
 Qy 445 GAGTGAAGCGGAGATGAAGTCACTGCACTCCAGCTGGGTGAAGAGCAAGACTCCCTC 504
 Db 16483 GAGTGAAGCGGAGATGAAGTCACTGCACTCCAGCTGGGCGAGAGCAAGACTCTGTC 16541
 Qy 505 TCAGAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 552
 Db 16542 TCAGAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 16589

RESULT 13
 US-09-843-377-11
 ; Sequence 11, Application US/09843377
 ; Publication No. US20030176371A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Andrew T. Watt
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF INTERFERON GAMMA RECEPTOR 2 EXPRESSION
 ; FILE REFERENCE: RTS-0235
 ; CURRENT APPLICATION NUMBER: US/09/843,377
 ; NUMBER OF SEQ ID NOS: 89
 ; SEQ ID NO 11

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? LENGTH: 54000
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: exon
? LOCATION: (514)...(1420)
? OTHER INFORMATION: Exon 1
? NAME/KEY: intron
? LOCATION: (1421)...(12692)
? OTHER INFORMATION: Intron 1
? NAME/KEY: exon
? LOCATION: (12693)...(12825)
? OTHER INFORMATION: Exon 2
? NAME/KEY: intron
? LOCATION: (12826)...(12984)
? OTHER INFORMATION: Intron 2
? NAME/KEY: exon
? LOCATION: (12985)...(19490)
? OTHER INFORMATION: Exon 3
? NAME/KEY: intron
? LOCATION: (19491)...(24688)
? OTHER INFORMATION: Intron 3
? NAME/KEY: exon
? LOCATION: (24689)...(24837)
? OTHER INFORMATION: Exon 4
? NAME/KEY: intron
? LOCATION: (24838)...(29981)
? OTHER INFORMATION: Intron 4
? NAME/KEY: exon
? LOCATION: (29982)...(30141)
? OTHER INFORMATION: Exon 5
? NAME/KEY: intron
? LOCATION: (30142)...(30518)
? OTHER INFORMATION: Intron 5
? NAME/KEY: exon
? LOCATION: (30519)...(30676)
? OTHER INFORMATION: Exon 6
? NAME/KEY: intron
? LOCATION: (30677)...(34632)
? OTHER INFORMATION: Intron 6
? NAME/KEY: exon
? LOCATION: (34633)...(35318)
? OTHER INFORMATION: Exon 7
? US-09-843-377-11

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Query Match 29.7%; Score 297.4; DB 12; Length 54000;
Best Local Similarity 79.2%; Pred. No. 7e-64;
Matches 377; Conservative 0; Mismatches 97; Indels 2; Gaps 2;

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QY 50 AAGCTGCTAGATTGTTGTAATAAATTAATGATAGGCGCGGTGCTCAGC 109
DB 18682 AACTCTAACAAGAAATTAATAAATAAACAATGACAGCCAGCAGTGGCTCAGC 18741
QY 110 CTGTATCCAGCACTTTAGAGGTGGAAGGGTGAATCACTTGAAGTCAAGATTGG 169
DB 18742 TTGTAAATTCAGCACTTTGGAGGCGAGGTGGCGGATCAATGAGCCAGAG-TTTG 18800
QY 170 AGACCGACCTGGGCAACAGGTGAACCCATCTCTAATAAATAAATAAATTAAGCTNG 229
DB 18801 AGACCGACCTGGGCAACAGGTGAACCCGTTTCTAATAAATAAATAAATTAACGAG 18860
QY 230 GTCCGCTGCTCAACCTGTAAATCCAGCACTTTGGAGGCTGAGCGGTGATCACT 289
DB 18861 GCATGATGTCGATGCTGTAATCCAGCATTTGGAGGCGCAAGGATGATCACTT 18920
QY 290 GAAGTCAGAGTTCAAGGCCAGCTGGGCAACATGTGTAACCAAGTCTCTACTAAAT 349
DB 18921 GAGGTCAAGAGTTGAGACCAAGCTGGGCAACATGTGTAACCAAGTCTCTACTAAAT 18980
QY 350 ACAAATTTAGCCAGGTGTGTGCAACAGCTGTACTCCAGTACTTGGAGGCTGAG 409
DB 18981 ACAAATTTAGCTGGGTGTGTGCTCAACCTGTACTCCAGTACTTGGAGGCTGAG 19040

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QY 410 GCGAAGAAATCGCTTGAACCCAGTAGCAGAGGTTGCACTGAGCCAGATTAAGTCACT 469
DB 19041 GCACAAAGAAATCACTTGAACCCAGTAGGAGGTTGCTGTGACCAAGAT-TGCGTACT 19099
QY 470 GCATCCAGCTGGGTGACAGAGCAAGACTCCCTCTCAGAAATAAATAAATAA 525
DB 19100 GCATCCAGCTGGGTGACAGAGCAAGCAAACTCCATCTCAAAAAAAAAAAAA 19155

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RESULT 14
US-09-764-868-1349/c
; Sequence 1349, Application US/09764868
; Patent No. US2002016871A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764, 868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1349
; LENGTH: 24533
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-1349

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Query Match 29.7%; Score 297.2; DB 10; Length 24533;
Best Local Similarity 80.0%; Pred. No. 5.5e-64;
Matches 399; Conservative 0; Mismatches 94; Indels 6; Gaps 4;

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QY 66 TGTAAATAATTAATGAATAGCTTAGGCGCGGTGCTCAACGCTGTAAATCCAGCACT 125
DB 6364 TGTCTAAATAATTAATTAATTAATAGCCAGCGGTGTGGCGGTCTGTAAATCCAGCACT 6305
QY 126 TTAAAGGTGCAAGAGGGTGAATCACTTGAAGTGTGGAACCAAGCTGGCCAA 185
DB 6304 TTAGAGGCGCGAGGCGGTGATCACTGAGTGGGAG-TTAAAGACCAAGCTGACAA. 6246
QY 186 CAGGTGAACCCCATCTCTAATAAATAAATAAATTAAGTNGGTGGGTGCTCAGC 245
DB 6245 CATGAGAAACCCCGCTCTACTAATAAATAAATTAAGTNGGTGGGTGCTCAGC 6188
QY 246 CTGTAAATCCAGCACTTTGGAGGCTGAGACGGGTGATCACTGAGTCAAGTCAAGTTCAA 305
DB 6187 CTGTAAATCCAGCACTTTGGAGGCTGAGACGGGTGATCACTGAGTCAAGTCAAGTTCAA 6128
QY 306 GGCACGCTGGGCAACATGATGTGAACCAAGTCTCTAATAAATAAATAAATTAAGCAG 365
DB 6127 GACCACTGACCAACATGATGAAGAACCCGCTCTCTAATAA--TAAACATTAAGCAG 6070
QY 366 TGTGTGTCACACGCTGTATGCTCCAGCTAATTTGGAGGCTGAGGCGGAAGATCGCTTG 425
DB 6069 CGTGTGTGTCACACGCTGTATGCTCCAGCTAATTTGGAGGCTGAGGCGGAAGATCGCTTG 6010
QY 426 AACCCAGTGGGAGAGGTTGACAGTGAACCGAAGTAAGATCACTGACCTCAAGTGGT 485
DB 6009 AACCCAGTGGGAGGAGGTTGACAGTGAACCGAAGT-TGCGCATTTGACCTCAAGTGGT 5951
QY 486 GACAGACCAAGACTCCCTCTCAGAAATAAATAAATAAATAAATAAATAAATAA 545
DB 5950 AAGAGTGAAGCTCGTTCAATAAATAAATAAATAAATAAATAAATAAATAAATAA 5891
QY 546 AATTAATAAATAATTTCTAA 564
DB 5890 AATTAATAAATAAATAAATAA 5872

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RESULT 15
US-09-764-891-7789/c
; Sequence 7789, Application US/09764891
; Publication No. US20030077808A1

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GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC006
CURRENT APPLICATION NUMBER: US/09/764,891
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 10231
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 789
LENGTH: 5281
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (1273)
OTHER INFORMATION:
US-09-764-891-7789

Query Match 29.6%; Score 296.4; DB 11; Length 5281;
Best Local Similarity 82.6%; Pred. No. 4,3e-64;
Matches 389; Conservative 0; Mismatches 72; Indels 10; Gaps 4;

QY 72 AAAATTAAATGGAATAGGCTAGGCGGGTGGCTCAGCGCTGTATCCCA-GCACTTTAGA 130
DB 2312 AAAATTAAATGGAATAGGCGGGTGGCTCAGCGCTGTATCCCA-GCACTTTAGA 2253
QY 131 AGGTGGAAGAGGGTGGATCACTTGAGGTCAGAGTTTGAACACAGCGTGGCCACACGG 190
DB 2252 AGGCCGAGGAGGCGTATCACTGAGGTCAAGG-TTTCAGGCGAGTCTGGCCACACGG 2194
QY 191 TGAACCCCATCTCTAATAAAATAAAATTAGCT-----NGGATGCGGTGGCTCAG 243
DB 2193 AGAAACCTATCTCTAATAAAATAAAATTAGTGGTGGTGGCGGAGTGGCTCAG 2134
QY 244 ACTGTAAATCCCGACACTTTGGAGGCTGAGACGGGTGATCACTGAAATCAGAGTTT 303
DB 2133 GCCTGTAAATCCCGACACTTTGGAGGCGGAGACAGGTGATCACTGAGGTCAAGAGTTT 2074
QY 304 AAGGCCAGCGCTGGGCAACATGTGAAACCAAGTCTCTAATAAAATAAAATTAGCCA 363
DB 2073 AAGACCAGCGCTGGGCAACATGTGAAACCGGCTCTCTAATAAAATAAAATTAGTGG 2014
QY 364 GGTGTGTGGCAACGCGCTGTAGTCCAGCTACTTGGAAGCTGAGGCGGAGAAATCGCT 423
DB 2013 GGTGTGTGTGGCAATGCTGTGCAATCCAGCTACTTGGAAGCTGAGGCGGAGAAATCGT 1954
QY 424 TGAACCCAGTAGGCAAGGTTGCAGTGAGCGGAGATGAAGTCACTGCACTCCAGCTGG 483
DB 1953 TGAACCCGAGGAGCGGAGTTGCAGTGAGCTGAGAT-CGACACCACTGCCCTTCAGCTGG 1895
QY 484 GTGACAGAGCAAGACTCCCTCTCAGAAAATAAAATAAAATAAAATA 534
DB 1894 GTAAACAGAGCAAGCTCTGTCTCAAAAAAAAAAAAAAAAAAAATTAA 1844

Search completed: October 9, 2003, 16:02:47
Job time : 250 secs

C 101	39	3.9	3607	3	US-08-952-014C-8	Sequence 8, Appl1	174	37	3.7	6769	5	PCT-US95-10203-20	Sequence 20, Appl1
C 102	39	3.9	4517	5	PCT-US93-06251-83	Sequence 87, Appl1	175	37	3.7	6769	5	PCT-US95-10220-20	Sequence 20, Appl1
C 103	39	3.9	4671	3	US-08-462-437-27	Sequence 27, Appl1	176	37	3.7	9734	3	US-09-347-114A-80	Sequence 80, Appl1
C 104	39	3.9	7130	3	US-09-056-105-31	Sequence 31, Appl1	177	37	3.7	11443	3	US-08-884-324-13	Sequence 13, Appl1
C 105	39	3.9	8133	4	US-09-659-791A-10	Sequence 10, Appl1	178	37	3.7	11755	2	US-08-756-506-1	Sequence 1, Appl1
C 106	39	3.9	8174	1	US-07-914-281-5	Sequence 5, Appl1	179	37	3.7	12482	2	US-09-512-563C-25	Sequence 25, Appl1
C 107	39	3.9	8174	1	US-08-893-246-5	Sequence 5, Appl1	180	37	3.7	14796	3	US-08-975-080-35	Sequence 35, Appl1
C 108	39	3.9	8174	1	US-08-525-058A-5	Sequence 5, Appl1	181	37	3.7	14796	3	US-09-630-706-10	Sequence 10, Appl1
C 109	39	3.9	8174	2	US-08-696-731-5	Sequence 5, Appl1	182	37	3.7	14796	3	US-09-496-694B-3	Sequence 3, Appl1
C 110	39	3.9	8174	3	US-09-042-531-5	Sequence 5, Appl1	183	37	3.7	15418	4	US-09-783-203-1	Sequence 1, Appl1
C 111	39	3.9	8174	5	PCT-US91-00899-3	Sequence 3, Appl1	184	37	3.7	16595	4	US-09-146-053-7	Sequence 7, Appl1
C 112	39	3.9	8453	3	US-09-167-681-45	Sequence 45, Appl1	185	37	3.7	17949	3	US-09-087-465-3	Sequence 3, Appl1
C 113	39	3.9	9844	3	US-08-462-437-30	Sequence 30, Appl1	186	37	3.7	21234	4	US-09-810-671-3	Sequence 3, Appl1
C 114	39	3.9	14636	4	US-09-173-914-6	Sequence 6, Appl1	187	37	3.7	21784	4	US-09-820-002-3	Sequence 3, Appl1
C 115	39	3.9	18853	4	US-09-820-005-3	Sequence 3, Appl1	188	37	3.7	24707	4	US-09-740-027-3	Sequence 3, Appl1
C 116	39	3.9	19806	4	US-09-740-028A-3	Sequence 3, Appl1	189	37	3.7	26016	4	US-09-326-480A-1	Sequence 1, Appl1
C 117	39	3.9	39982	4	US-09-820-924-3	Sequence 3, Appl1	190	37	3.7	28720	4	US-09-341-587-7	Sequence 7, Appl1
C 118	39	3.9	43950	4	US-09-735-934A-3	Sequence 3, Appl1	191	37	3.7	28994	3	US-08-884-324-14	Sequence 14, Appl1
C 119	39	3.9	43950	4	US-10-060-332-3	Sequence 3, Appl1	192	37	3.7	29629	4	US-09-729-995-3	Sequence 3, Appl1
C 120	39	3.9	50000	4	US-09-146-053-4	Sequence 4, Appl1	193	37	3.7	41684	4	US-09-536-059-1	Sequence 1, Appl1
C 121	39	3.9	51719	4	US-09-918-686-2	Sequence 2, Appl1	194	37	3.7	45546	4	US-09-146-053-6	Sequence 6, Appl1
C 122	39	3.9	70000	4	US-09-851-896-3	Sequence 3, Appl1	195	37	3.7	46738	4	US-09-816-093-3	Sequence 3, Appl1
C 123	39	3.9	87350	3	US-08-781-891-79	Sequence 79, Appl1	196	37	3.7	50000	4	US-09-146-053-3	Sequence 3, Appl1
C 124	39	3.9	87350	4	US-09-618-166-79	Sequence 79, Appl1	197	37	3.7	53526	3	US-08-658-136-2	Sequence 2, Appl1
C 125	39	3.9	87543	4	US-09-791-211-3	Sequence 3, Appl1	198	37	3.7	53577	3	US-08-658-136-1	Sequence 1, Appl1
C 126	39	3.9	92139	4	US-09-918-686-1	Sequence 1, Appl1	199	37	3.7	55516	2	US-08-996-306-1	Sequence 1, Appl1
C 127	39	3.9	98844	4	US-09-791-211-10	Sequence 10, Appl1	200	37	3.7	55516	3	US-09-338-907-1	Sequence 1, Appl1
C 128	39	3.9	11652	4	US-09-818-512-3	Sequence 3, Appl1	201	37	3.7	56516	4	US-09-318-207-1	Sequence 1, Appl1
C 129	39	3.9	319608	4	US-09-539-333D-1	Sequence 1, Appl1	202	37	3.7	56520	3	US-09-338-907-179	Sequence 179, Appl1
C 130	39	3.9	319608	4	US-09-679-409-1	Sequence 1, Appl1	203	37	3.7	56520	4	US-09-218-207-179	Sequence 179, Appl1
C 131	38	3.8	223	4	US-09-643-597-268	Sequence 268, App	204	37	3.7	64467	4	US-09-803-671B-3	Sequence 3, Appl1
C 132	38	3.8	223	4	US-09-480-884A-268	Sequence 268, App	205	37	3.7	84495	4	US-09-797-906-3	Sequence 3, Appl1
C 133	38	3.8	223	4	US-09-542-615A-268	Sequence 268, App	206	37	3.7	168575	4	US-09-426-290-1	Sequence 1, Appl1
C 134	38	3.8	223	4	US-09-606-421B-268	Sequence 268, App	207	37	3.7	169998	4	US-09-676-610B-24	Sequence 24, Appl1
C 135	38	3.8	257	2	US-08-849-701-4	Sequence 4, Appl1	208	37	3.7	174493	4	US-09-804-471R-3	Sequence 3, Appl1
C 136	38	3.8	1595	4	US-09-461-325-17	Sequence 17, Appl1	209	37	3.7	17633	3	US-09-128-155-17	Sequence 17, Appl1
C 137	38	3.8	1860	4	US-09-469-847-53	Sequence 53, Appl1	210	37	3.7	197496	4	US-09-877-177A-10	Sequence 10, Appl1
C 138	38	3.8	1988	2	US-08-257-963B-11	Sequence 11, Appl1	211	37	3.7	319608	4	US-09-539-333D-1	Sequence 1, Appl1
C 139	38	3.8	1988	4	US-08-367-841A-11	Sequence 11, Appl1	212	37	3.7	319608	4	US-09-679-409-1	Sequence 1, Appl1
C 140	38	3.8	1988	5	PCT-US95-07201-11	Sequence 11, Appl1	213	36	3.6	308	4	US-09-702-705-1103	Sequence 1111, Ap
C 141	38	3.8	3035	1	US-08-726-725-2	Sequence 2, Appl1	214	36	3.6	308	4	US-09-736-457-1111	Sequence 1111, Ap
C 142	38	3.8	5262	4	US-08-520-373D-5	Sequence 5, Appl1	215	36	3.6	363	4	US-09-702-705-878	Sequence 878, App
C 143	38	3.8	8353	3	US-08-611-587-1	Sequence 1, Appl1	216	36	3.6	363	4	US-09-736-457-878	Sequence 878, App
C 144	38	3.8	13158	2	US-08-687-080-105	Sequence 105, App	217	36	3.6	364	4	US-09-702-705-867	Sequence 867, App
C 145	38	3.8	13158	2	US-08-687-080-105	Sequence 105, App	218	36	3.6	364	4	US-09-736-457-867	Sequence 867, App
C 146	38	3.8	15297	4	US-09-817-180-3	Sequence 3, Appl1	219	36	3.6	368	4	US-09-702-705-1003	Sequence 1003, Ap
C 147	38	3.8	16389	4	US-08-367-841A-43	Sequence 43, Appl1	220	36	3.6	368	4	US-09-702-705-1038	Sequence 1038, Ap
C 148	38	3.8	22481	4	US-08-367-841A-43	Sequence 43, Appl1	221	36	3.6	368	4	US-09-702-705-1044	Sequence 1044, Ap
C 149	38	3.8	22481	5	PCT-US95-07201-43	Sequence 43, Appl1	222	36	3.6	368	4	US-09-702-705-1092	Sequence 1092, Ap
C 150	38	3.8	22484	4	US-09-875-223-2	Sequence 2, Appl1	223	36	3.6	368	4	US-09-702-705-1164	Sequence 1164, Ap
C 151	38	3.8	38564	4	US-09-734-673-3	Sequence 3, Appl1	224	36	3.6	368	4	US-09-702-705-1584	Sequence 1584, Ap
C 152	38	3.8	63588	4	US-09-873-404-3	Sequence 3, Appl1	225	36	3.6	368	4	US-09-736-457-1584	Sequence 1584, Ap
C 153	38	3.8	99500	4	US-09-798-096-10	Sequence 10, Appl1	226	36	3.6	368	4	US-09-736-457-1038	Sequence 1038, Ap
C 154	37	3.7	282	1	US-08-133-629-8	Sequence 8, Appl1	227	36	3.6	368	4	US-09-736-457-1044	Sequence 1044, Ap
C 155	37	3.7	283	4	US-08-579-445-24	Sequence 24, Appl1	228	36	3.6	368	4	US-09-736-457-1164	Sequence 1164, Ap
C 156	37	3.7	526	4	US-08-579-445-24	Sequence 24, Appl1	229	36	3.6	368	4	US-09-736-457-1092	Sequence 1092, Ap
C 157	37	3.7	676	4	US-09-490-818-1	Sequence 1, Appl1	230	36	3.6	368	4	US-09-736-457-1584	Sequence 1584, Ap
C 158	37	3.7	1837	4	US-08-737-371A-3	Sequence 3, Appl1	231	36	3.6	601	4	US-09-691-861A-19	Sequence 19, Appl1
C 159	37	3.7	1837	5	PCT-US95-05853-3	Sequence 3, Appl1	232	36	3.6	655	3	US-09-385-982-301	Sequence 301, Appl1
C 160	37	3.7	1838	4	US-09-227-357-32	Sequence 32, Appl1	233	36	3.6	852	3	US-09-078-294-18	Sequence 18, Appl1
C 161	37	3.7	3867	3	US-09-347-114A-81	Sequence 81, Appl1	234	36	3.6	955	4	US-09-620-312D-288	Sequence 228, Appl1
C 162	37	3.7	4080	2	US-08-710-249-3	Sequence 3, Appl1	235	36	3.6	998	4	US-09-827-357-62	Sequence 62, Appl1
C 163	37	3.7	4080	2	US-09-220-157A-3	Sequence 3, Appl1	236	36	3.6	1001	4	US-09-671-317-274	Sequence 274, Appl1
C 164	37	3.7	4192	4	US-09-122-126B-1	Sequence 1, Appl1	237	36	3.6	1154	4	US-09-539-333D-37	Sequence 37, Appl1
C 165	37	3.7	4192	4	US-09-634-286A-1	Sequence 1, Appl1	238	36	3.6	1281	4	US-09-996-243-372	Sequence 372, Appl1
C 166	37	3.7	4773	3	US-08-884-324-9	Sequence 9, Appl1	239	36	3.6	1289	4	US-09-247-155-118	Sequence 118, Appl1
C 167	37	3.7	6769	1	US-08-480-784-20	Sequence 20, Appl1	240	36	3.6	1301	4	US-08-983-502-19	Sequence 19, Appl1
C 168	37	3.7	6769	1	US-08-483-553-20	Sequence 20, Appl1	241	36	3.6	1301	4	US-09-539-333D-36	Sequence 36, Appl1
C 169	37	3.7	6769	1	US-08-487-002-20	Sequence 20, Appl1	242	36	3.6	1301	5	PCT-US96-10521-15	Sequence 15, Appl1
C 170	37	3.7	6769	1	US-08-483-554B-20	Sequence 20, Appl1	243	36	3.6	1301	5	PCT-US96-10521-15	Sequence 15, Appl1
C 171	37	3.7	6769	1	US-08-488-011B-20	Sequence 20, Appl1	244	36	3.6	1323	4	US-08-983-502-15	Sequence 15, Appl1
C 172	37	3.7	6769	1	US-08-850-727-20	Sequence 20, Appl1	245	36	3.6	1323	4	US-09-516-747-15	Sequence 15, Appl1
C 173	37	3.7	6769	5	PCT-US95-10202-20	Sequence 20, Appl1	246	36	3.6	1323	5	PCT-US96-10521-15	Sequence 15, Appl1

247	36	3.6	1386	4	US-09-539-333D-40	Sequence 40, Appl	C 320	35	3.5	320	1	US-08-629-939-5	Sequence 5, Appl
C 248	36	3.6	1443	4	US-08-983-502-33	Sequence 33, Appl	C 321	35	3.5	320	1	US-08-759-873-5	Sequence 5, Appl
C 249	36	3.6	1443	4	US-09-516-747-33	Sequence 33, Appl	C 322	35	3.5	380	1	US-08-126-587C-5	Sequence 5, Appl
C 250	36	3.6	1443	5	PCT-US96-10521-33	Sequence 33, Appl	C 323	35	3.5	417	4	US-09-495-050A-282	Sequence 282, App
251	36	3.6	1808	1	US-08-351-149-4	Sequence 4, Appl	C 324	35	3.5	534	1	US-08-599-252-101	Sequence 101, App
252	36	3.6	1808	1	US-08-384-828-4	Sequence 4, Appl	C 325	35	3.5	534	5	PCT-US96-06359-101	Sequence 101, App
253	36	3.6	1808	3	US-08-895-474-4	Sequence 4, Appl	C 326	35	3.5	534	5	PCT-US96-06359-101	Sequence 101, App
254	36	3.6	2040	3	US-09-069-023-33	Sequence 33, Appl	C 327	35	3.5	534	5	PCT-US96-06359-101	Sequence 101, App
255	36	3.6	2045	3	US-08-795-088A-1	Sequence 1, Appl	C 328	35	3.5	725	4	US-09-288-143-37	Sequence 37, Appl
256	36	3.6	2503	3	US-09-198-122-7	Sequence 7, Appl	C 329	35	3.5	747	4	US-09-328-475C-338	Sequence 328, App
C 257	36	3.6	2619	4	US-08-983-502-17	Sequence 17, Appl	C 330	35	3.5	748	4	US-09-304-615-55	Sequence 55, Appl
C 258	36	3.6	2619	4	US-09-516-747-17	Sequence 17, Appl	C 331	35	3.5	856	4	US-09-288-143-47	Sequence 47, Appl
C 259	36	3.6	2619	5	PCT-US96-10521-17	Sequence 17, Appl	C 332	35	3.5	930	4	US-09-641-638-277	Sequence 277, App
C 260	36	3.6	2649	2	US-08-718-964-1	Sequence 1, Appl	C 333	35	3.5	1001	4	US-09-671-317-238	Sequence 238, App
C 261	36	3.6	2649	2	US-09-059-964A-1	Sequence 1, Appl	C 334	35	3.5	1001	4	US-09-671-317-239	Sequence 239, App
C 262	36	3.6	2649	2	US-08-842-341-1	Sequence 1, Appl	C 335	35	3.5	1002	4	US-09-641-638-587	Sequence 587, App
C 263	36	3.6	2886	2	US-08-687-080-55	Sequence 55, Appl	C 336	35	3.5	1024	4	US-09-428-475C-75	Sequence 75, Appl
C 264	36	3.6	2886	2	US-08-687-080-55	Sequence 55, Appl	C 337	35	3.5	1043	4	US-09-165-868-4	Sequence 4, Appl
C 265	36	3.6	2887	4	US-08-983-502-14	Sequence 14, Appl	C 338	35	3.5	1314	4	US-09-599-360B-54	Sequence 54, Appl
C 266	36	3.6	2887	4	US-09-516-747-14	Sequence 14, Appl	C 339	35	3.5	1359	4	US-09-599-360B-54	Sequence 54, Appl
C 267	36	3.6	2887	5	PCT-US96-10521-14	Sequence 14, Appl	C 340	35	3.5	1601	4	US-09-016-434-1218	Sequence 1218, App
268	36	3.6	3452	4	US-09-996-243-56	Sequence 56, Appl	C 341	35	3.5	1690	3	US-08-943-731-166	Sequence 166, App
269	36	3.6	3472	4	US-09-016-434-1328	Sequence 1328, App	C 342	35	3.5	2078	4	US-09-489-847-61	Sequence 61, Appl
270	36	3.6	3480	1	US-07-657-769B-68	Sequence 68, Appl	C 343	35	3.5	2091	4	US-09-620-312D-743	Sequence 743, App
271	36	3.6	3480	1	US-07-789-184-219	Sequence 219, App	C 344	35	3.5	2480	4	US-09-534-638-3	Sequence 3, Appl
272	36	3.6	3480	1	US-08-475-263-219	Sequence 219, App	C 345	35	3.5	2559	2	US-08-866-152-4	Sequence 4, Appl
273	36	3.6	3480	1	US-08-485-886-219	Sequence 219, App	C 346	35	3.5	2559	4	US-09-196-222-4	Sequence 4, Appl
274	36	3.6	3480	2	US-08-477-362-219	Sequence 219, App	C 347	35	3.5	2567	4	US-09-996-243-240	Sequence 240, App
275	36	3.6	3480	2	US-08-477-134-219	Sequence 219, App	C 348	35	3.5	3257	2	US-08-257-963B-12	Sequence 12, Appl
276	36	3.6	3480	3	US-08-473-489A-219	Sequence 219, App	C 349	35	3.5	3267	4	US-08-367-841A-12	Sequence 12, Appl
277	36	3.6	3480	3	US-08-485-695-219	Sequence 219, App	C 350	35	3.5	3267	5	PCT-US93-06251-28	Sequence 28, Appl
278	36	3.6	3480	3	US-08-018-760-219	Sequence 219, App	C 351	35	3.5	3366	4	US-09-345-650-2	Sequence 5, Appl
C 279	36	3.6	5550	3	US-09-103-663-35	Sequence 35, Appl	C 352	35	3.5	3742	1	US-08-694-915-5	Sequence 5, Appl
C 280	36	3.6	5550	3	US-09-050-159-129	Sequence 129, App	C 353	35	3.5	4468	4	US-09-620-312D-243	Sequence 243, App
C 281	36	3.6	6139	4	US-08-883-076D-33	Sequence 33, Appl	C 354	35	3.5	4698	4	US-09-439-261-34	Sequence 34, Appl
C 282	36	3.6	6623	2	US-08-687-080-68	Sequence 68, Appl	C 355	35	3.5	5375	3	US-08-757-223-7	Sequence 7, Appl
C 283	36	3.6	7676	2	US-08-451-777A-7	Sequence 7, Appl	C 356	35	3.5	6235	3	US-09-305-384-5	Sequence 5, Appl
C 284	36	3.6	7676	2	US-08-451-778A-7	Sequence 7, Appl	C 357	35	3.5	6235	3	US-09-305-384-5	Sequence 5, Appl
C 285	36	3.6	7676	2	US-08-998-208-7	Sequence 7, Appl	C 358	35	3.5	6679	3	US-09-525-160B-6	Sequence 6, Appl
C 286	36	3.6	7676	5	PCT-US95-06743-7	Sequence 7, Appl	C 359	35	3.5	7210	2	US-09-525-160B-5	Sequence 5, Appl
C 287	36	3.6	7680	4	US-09-210-748A-3	Sequence 3, Appl	C 360	35	3.5	7210	2	US-08-257-963B-10	Sequence 10, Appl
C 288	36	3.6	9704	4	US-09-814-951A-3	Sequence 3, Appl	C 361	35	3.5	7210	4	US-08-367-841A-10	Sequence 10, Appl
C 289	36	3.6	11811	2	US-09-078-294-7	Sequence 7, Appl	C 362	35	3.5	7210	5	PCT-US93-06251-10	Sequence 28, Appl
C 290	36	3.6	12047	2	US-09-022-461-1	Sequence 1, Appl	C 363	35	3.5	8056	3	US-09-136-605-14	Sequence 14, Appl
C 291	36	3.6	12047	4	US-09-033-556-3	Sequence 3, Appl	C 364	35	3.5	8082	1	US-08-306-691B-41	Sequence 41, Appl
C 292	36	3.6	12047	4	US-09-474-699-11	Sequence 11, Appl	C 365	35	3.5	8082	1	US-08-187-785-1	Sequence 1, Appl
C 293	36	3.6	12565	3	US-09-345-217-3	Sequence 3, Appl	C 366	35	3.5	8082	4	US-09-167-322-11	Sequence 11, Appl
C 294	36	3.6	14636	3	US-09-173-914-6	Sequence 6, Appl	C 367	35	3.5	8082	4	US-09-167-322-11	Sequence 11, Appl
C 295	36	3.6	14796	3	US-08-975-080-35	Sequence 35, Appl	C 368	35	3.5	12394	4	PCT-US93-06251-28	Sequence 28, Appl
C 296	36	3.6	14796	4	US-09-630-706-10	Sequence 10, Appl	C 369	35	3.5	12394	4	US-09-488-856A-10	Sequence 10, Appl
C 297	36	3.6	14796	4	US-09-496-694B-3	Sequence 3, Appl	C 370	35	3.5	14747	4	US-09-835-811-3	Sequence 3, Appl
C 298	36	3.6	15652	4	US-09-844-634-17	Sequence 17, Appl	C 371	35	3.5	14747	4	US-09-608-280A-42	Sequence 42, Appl
C 299	36	3.6	18000	4	US-09-422-936-60	Sequence 60, Appl	C 372	35	3.5	15977	4	US-09-557-800C-42	Sequence 42, Appl
C 300	36	3.6	18000	4	US-09-657-346A-17	Sequence 17, Appl	C 373	35	3.5	15977	4	US-09-608-280A-42	Sequence 42, Appl
C 301	36	3.6	23187	4	US-09-499-522-1	Sequence 1, Appl	C 374	35	3.5	17606	3	US-09-608-280A-42	Sequence 42, Appl
C 302	36	3.6	31571	1	US-08-323-443B-1	Sequence 1, Appl	C 375	35	3.5	17606	3	US-09-608-280A-42	Sequence 42, Appl
C 303	36	3.6	32042	4	US-09-245-281-44	Sequence 44, Appl	C 376	35	3.5	18000	4	US-08-943-731-4	Sequence 4, Appl
C 304	36	3.6	32042	4	US-09-340-620A-63	Sequence 63, Appl	C 377	35	3.5	20303	1	US-09-657-346A-17	Sequence 17, Appl
C 305	36	3.6	36159	4	US-09-749-588-3	Sequence 3, Appl	C 378	35	3.5	20303	1	US-09-657-346A-17	Sequence 17, Appl
C 306	36	3.6	53332	4	US-09-801-861-3	Sequence 3, Appl	C 379	35	3.5	20303	1	US-09-657-346A-17	Sequence 17, Appl
C 307	36	3.6	53526	4	US-08-658-136-2	Sequence 2, Appl	C 380	35	3.5	23187	4	US-08-370-975B-6	Sequence 6, Appl
C 308	36	3.6	53577	3	US-08-658-136-1	Sequence 1, Appl	C 381	35	3.5	25464	4	US-09-499-522-1	Sequence 1, Appl
C 309	36	3.6	72928	3	US-09-009-913-1	Sequence 1, Appl	C 382	35	3.5	26016	4	US-09-326-480A-4	Sequence 4, Appl
C 310	36	3.6	75395	4	US-09-984-890-3	Sequence 3, Appl	C 383	35	3.5	26764	1	US-09-326-480A-4	Sequence 4, Appl
C 311	36	3.6	75395	4	US-09-984-890-3	Sequence 3, Appl	C 384	35	3.5	28001	4	US-08-370-975B-1	Sequence 1, Appl
C 312	36	3.6	80246	3	US-09-078-294-4	Sequence 4, Appl	C 385	35	3.5	28001	4	US-08-370-975B-1	Sequence 1, Appl
C 313	36	3.6	80595	4	US-09-078-294-3	Sequence 3, Appl	C 386	35	3.5	32654	4	US-09-729-993-3	Sequence 3, Appl
C 314	36	3.6	83450	4	US-09-811-469-3	Sequence 3, Appl	C 387	35	3.5	32654	4	US-09-729-993-3	Sequence 3, Appl
C 315	36	3.6	111282	4	US-09-754-250-3	Sequence 3, Appl	C 388	35	3.5	35060	4	US-08-814-095-7	Sequence 7, Appl
C 316	36	3.6	152331	3	US-09-128-155-16	Sequence 16, Appl	C 389	35	3.5	36651	4	US-09-738-894A-3	Sequence 3, Appl
C 317	36	3.6	158575	4	US-09-426-290-1	Sequence 1, Appl	C 390	35	3.5	36651	4	US-09-738-894A-3	Sequence 3, Appl
C 318	36	3.6	174493	4	US-09-804-471A-3	Sequence 3, Appl	C 391	35	3.5	40352	4	US-09-922-445-1	Sequence 15, Appl
C 319	36	3.6	202001	4	US-09-734-674-3	Sequence 3, Appl	C 392	35	3.5	40352	4	US-08-846-111D-15	Sequence 15, Appl

393	35	3.5	42571	4	US-09-810-347-3	Sequence 3, Appl1	466	33	3.3	517	5	PCT-US95-10203-33	Sequence 33, Appl1
394	35	3.5	49312	4	US-09-671-317-485	Sequence 485, App	467	33	3.3	517	5	PCT-US95-10220-33	Sequence 33, Appl1
395	35	3.5	51552	4	US-09-733-294A-30	Sequence 30, Appl1	468	33	3.3	517	5	PCT-US95-10220-33	Sequence 43, Appl1
396	35	3.5	51552	4	US-09-733-294A-30	Sequence 30, Appl1	469	33	3.3	737	2	US-08-896-164-43	Sequence 41, Appl1
397	35	3.5	53332	4	US-09-801-861-3	Sequence 3, Appl1	470	33	3.3	737	2	US-08-896-164-43	Sequence 41, Appl1
398	35	3.5	55827	4	US-09-813-133A-3	Sequence 3, Appl1	471	33	3.3	737	2	US-08-896-164-43	Sequence 41, Appl1
399	35	3.5	81001	4	US-09-750-580-1	Sequence 1, Appl1	472	33	3.3	1113	3	US-09-003-648-22	Sequence 41, Appl1
400	35	3.5	83450	4	US-09-811-469-3	Sequence 3, Appl1	473	33	3.3	1113	3	US-09-003-648-22	Sequence 41, Appl1
401	34	3.4	201	2	US-08-849-701-5	Sequence 5, Appl1	474	33	3.3	1313	4	US-08-818-829-22	Sequence 22, Appl1
402	34	3.4	308	4	US-09-222-575-88	Sequence 88, Appl1	475	33	3.3	1322	4	US-09-461-325-67	Sequence 22, Appl1
403	34	3.4	308	4	US-09-389-681-88	Sequence 88, Appl1	476	33	3.3	1773	4	US-09-896-243-360	Sequence 67, Appl1
404	34	3.4	308	4	US-09-620-405B-88	Sequence 88, Appl1	477	33	3.3	1773	4	US-09-896-243-360	Sequence 360, App
405	34	3.4	308	4	US-09-339-338-88	Sequence 88, Appl1	478	33	3.3	1856	1	US-08-157-171-3	Sequence 215, App
406	34	3.4	308	4	US-09-433-826B-88	Sequence 88, Appl1	479	33	3.3	1856	1	US-09-050-159-128	Sequence 128, App
407	34	3.4	308	4	US-09-604-287A-88	Sequence 88, Appl1	480	33	3.3	1947	1	US-08-299-849B-19	Sequence 19, Appl1
408	34	3.4	403	3	US-08-946-026-10	Sequence 10, Appl1	481	33	3.3	1947	2	US-08-142-368B-19	Sequence 19, Appl1
409	34	3.4	859	3	US-09-535-008-58	Sequence 58, Appl1	482	33	3.3	1947	3	US-08-037-230D-19	Sequence 19, Appl1
410	34	3.4	863	3	US-08-943-731-171	Sequence 171, App	483	33	3.3	1947	3	US-08-037-230D-19	Sequence 19, Appl1
411	34	3.4	966	4	US-09-641-638-117	Sequence 117, App	484	33	3.3	1947	4	US-09-583-850-19	Sequence 19, Appl1
412	34	3.4	1001	4	US-09-641-638-117	Sequence 312, App	485	33	3.3	1947	4	US-09-579-197-19	Sequence 19, Appl1
413	34	3.4	1001	4	US-09-641-638-117	Sequence 448, App	486	33	3.3	1947	4	US-09-404-026-19	Sequence 19, Appl1
414	34	3.4	1037	4	US-09-257-179-16	Sequence 16, App	487	33	3.3	2099	3	US-08-938-669A-5	Sequence 5, Appl1
415	34	3.4	1050	3	US-08-755-587-21	Sequence 21, App	488	33	3.3	2099	4	US-09-306-828-5	Sequence 5, Appl1
416	34	3.4	1182	4	US-09-469-242-1	Sequence 1, Appl1	489	33	3.3	2229	3	US-08-927-219-80	Sequence 80, Appl1
417	34	3.4	1260	1	US-08-599-252-83	Sequence 83, Appl1	490	33	3.3	2229	4	US-09-218-363-1	Sequence 1, Appl1
418	34	3.4	1260	1	US-08-436-074-56	Sequence 56, Appl1	491	33	3.3	2630	3	US-08-669-286-6	Sequence 6, Appl1
419	34	3.4	1260	5	PCT-US96-06352-83	Sequence 83, Appl1	492	33	3.3	2630	3	US-09-469-253-6	Sequence 6, Appl1
420	34	3.4	1260	5	PCT-US96-06352-83	Sequence 83, Appl1	493	33	3.3	2630	3	US-09-642-146-6	Sequence 6, Appl1
421	34	3.4	2253	4	US-09-595-549-1	Sequence 1, Appl1	494	33	3.3	3101	4	US-09-602-877A-97	Sequence 97, Appl1
422	34	3.4	2255	4	US-09-620-312D-582	Sequence 582, App	495	33	3.3	3301	4	US-09-632-098-1	Sequence 1, Appl1
423	34	3.4	2343	2	US-09-031-592-1	Sequence 1, Appl1	496	33	3.3	3360	4	US-09-904-615-44	Sequence 44, Appl1
424	34	3.4	2343	2	US-09-399-549-1	Sequence 1, Appl1	497	33	3.3	3368	4	US-09-632-098-3	Sequence 3, Appl1
425	34	3.4	2343	4	US-09-610-417-1	Sequence 1, Appl1	498	33	3.3	3307	1	US-08-832-883-67	Sequence 67, Appl1
426	34	3.4	2351	4	US-09-620-312D-848	Sequence 848, App	499	33	3.3	3507	2	US-08-832-877-67	Sequence 67, Appl1
427	34	3.4	2415	3	US-09-019-689-1	Sequence 1, Appl1	500	33	3.3	3805	4	US-09-108-006C-3	Sequence 3, Appl1
428	34	3.4	3114	3	US-08-946-026-12	Sequence 12, Appl1	501	33	3.3	3885	1	US-08-688-145-1	Sequence 1, Appl1
429	34	3.4	3129	4	US-10-045-428A-9	Sequence 9, Appl1	502	33	3.3	4460	3	US-09-103-875-4	Sequence 4, Appl1
430	34	3.4	4182	4	US-09-667-422-2	Sequence 2, Appl1	503	33	3.3	5575	3	US-08-757-223-7	Sequence 7, Appl1
431	34	3.4	4182	4	US-09-667-422-2	Sequence 2, Appl1	504	33	3.3	5581	4	US-08-973-544-1	Sequence 1, Appl1
432	34	3.4	4203	4	US-09-667-422-1	Sequence 1, Appl1	505	33	3.3	6063	1	US-08-195-744-4	Sequence 4, Appl1
433	34	3.4	4336	2	US-08-852-807-12	Sequence 12, Appl1	506	33	3.3	6063	2	US-08-788-279-4	Sequence 4, Appl1
434	34	3.4	4335	3	US-09-058-489-19	Sequence 19, Appl1	507	33	3.3	6246	3	US-08-943-731-640	Sequence 640, App
435	34	3.4	4668	3	US-09-045-501-1	Sequence 1, Appl1	508	33	3.3	7210	2	US-08-257-963B-10	Sequence 10, Appl1
436	34	3.4	4803	3	US-09-197-636-1	Sequence 1, Appl1	509	33	3.3	7210	4	US-08-367-841A-10	Sequence 10, Appl1
437	34	3.4	4803	3	US-09-197-636-1	Sequence 3, Appl1	510	33	3.3	7210	5	PCT-US95-07201-10	Sequence 10, Appl1
438	34	3.4	4803	2	US-08-400-159-5	Sequence 5, Appl1	511	33	3.3	7301	4	US-09-816-094-3	Sequence 3, Appl1
439	34	3.4	6464	2	US-08-611-729A-5	Sequence 5, Appl1	512	33	3.3	7705	2	US-08-687-080-115	Sequence 115, App
440	34	3.4	7620	1	US-07-767-135-1	Sequence 1, Appl1	513	33	3.3	9377	4	US-09-801-878-3	Sequence 3, Appl1
441	34	3.4	7620	1	US-07-841-652-1	Sequence 1, Appl1	514	33	3.3	13187	4	US-09-422-936-61	Sequence 61, Appl1
442	34	3.4	8220	4	US-09-797-908-3	Sequence 3, Appl1	515	33	3.3	14581	4	US-08-520-373D-4	Sequence 4, Appl1
443	34	3.4	8517	3	US-08-827-208-1	Sequence 1, Appl1	516	33	3.3	14753	4	US-09-821-736-3	Sequence 3, Appl1
444	34	3.4	8517	3	US-09-500-358-1	Sequence 1, Appl1	517	33	3.3	38844	4	US-09-734-675-3	Sequence 3, Appl1
445	34	3.4	8517	3	US-09-498-809-1	Sequence 3, Appl1	518	33	3.3	50000	4	US-09-146-053-3	Sequence 3, Appl1
446	34	3.4	10684	3	US-08-618-100B-3	Sequence 3, Appl1	519	33	3.3	62804	4	US-09-800-960-3	Sequence 3, Appl1
447	34	3.4	12597	4	US-09-705-299-12	Sequence 12, Appl1	520	33	3.3	62804	4	US-09-800-960-3	Sequence 3, Appl1
448	34	3.4	13674	2	US-08-852-807-1	Sequence 1, Appl1	521	33	3.3	80246	3	US-09-800-960-3	Sequence 3, Appl1
449	34	3.4	16389	4	US-09-741-154-3	Sequence 4, Appl1	522	33	3.3	80246	3	US-09-800-960-3	Sequence 3, Appl1
450	34	3.4	17606	3	US-08-943-731-4	Sequence 3, Appl1	523	33	3.3	80595	3	US-09-078-294-3	Sequence 3, Appl1
451	34	3.4	18073	3	US-09-078-294-12	Sequence 12, Appl1	524	33	3.3	176373	3	US-09-128-155-17	Sequence 17, Appl1
452	34	3.4	18443	3	US-09-078-294-6	Sequence 6, Appl1	525	33	3.3	421	2	US-08-332-766A-25	Sequence 25, Appl1
453	34	3.4	38653	4	US-09-922-445-1	Sequence 1, Appl1	526	33	3.3	454	4	US-09-152-060-32	Sequence 32, Appl1
454	34	3.4	38844	4	US-09-734-675-3	Sequence 3, Appl1	527	33	3.3	609	3	US-09-385-982-237	Sequence 237, App
455	34	3.4	65042	4	US-09-784-316-3	Sequence 3, Appl1	528	33	3.3	622	4	US-09-495-050A-11	Sequence 11, Appl1
456	34	3.4	74962	4	US-09-685-853A-3	Sequence 3, Appl1	529	33	3.3	646	3	US-09-385-982-237	Sequence 314, App
457	34	3.4	112132	4	US-09-741-150-3	Sequence 3, Appl1	530	33	3.3	774	3	US-08-755-587-20	Sequence 20, Appl1
458	34	3.4	152331	3	US-09-128-155-16	Sequence 16, App	531	33	3.3	793	2	US-08-592-541-121	Sequence 121, App
459	33	3.3	517	1	US-08-480-784-33	Sequence 33, Appl1	532	33	3.3	793	3	US-09-124-698-121	Sequence 121, App
460	33	3.3	517	1	US-08-483-553-33	Sequence 33, Appl1	533	33	3.3	793	3	US-09-124-698-121	Sequence 121, App
461	33	3.3	517	1	US-08-487-002-33	Sequence 33, Appl1	534	33	3.3	793	3	US-08-496-841C-121	Sequence 121, App
462	33	3.3	517	1	US-08-483-554B-33	Sequence 33, Appl1	535	33	3.3	793	4	US-09-124-698-121	Sequence 121, App
463	33	3.3	517	1	US-08-488-011B-33	Sequence 33, Appl1	536	33	3.3	793	4	US-09-636-796A-121	Sequence 121, App
464	33	3.3	517	1	US-08-850-727-33	Sequence 33, Appl1	537	33	3.3	793	4	US-08-431-048F-121	Sequence 121, App
465	33	3.3	517	5	PCT-US95-10202-33	Sequence 33, Appl1	538	33	3.3	826	4	US-09-288-143-45	Sequence 45, Appl1

C 539	32	3.2	940	4	US-09-659-791A-11	Sequence 11, Appl	612	32	3.2	13953	4	US-09-738-884-3	Sequence 3, Appl
C 540	32	3.2	995	4	US-09-671-317-59	Sequence 59, Appl	C 613	32	3.2	19511	5	US-08-310-355-36	Sequence 36, Appl
C 541	32	3.2	1001	4	US-09-641-638-376	Sequence 376, Appl	C 614	32	3.2	19507	1	PCT-US92-06300-1	Sequence 1, Appl
C 542	32	3.2	1001	4	US-09-671-317-171	Sequence 171, Appl	C 615	32	3.2	19650	4	US-09-819-989-3	Sequence 3, Appl
C 543	32	3.2	1011	3	US-09-018-584A-28	Sequence 28, Appl	C 616	32	3.2	20674	4	US-09-641-638-651	Sequence 651, Appl
C 544	32	3.2	1011	3	US-09-018-584A-29	Sequence 29, Appl	C 617	32	3.2	21784	4	US-09-820-002-3	Sequence 3, Appl
C 545	32	3.2	1024	4	US-09-328-475C-7	Sequence 7, Appl	C 618	32	3.2	26664	4	US-09-564-805-28	Sequence 28, Appl
C 546	32	3.2	1083	2	US-09-057-762-24	Sequence 24, Appl	C 619	32	3.2	28001	4	US-09-819-993-3	Sequence 3, Appl
C 547	32	3.2	1083	2	US-08-326-119A-24	Sequence 24, Appl	C 620	32	3.2	32654	4	US-09-801-191A-3	Sequence 3, Appl
C 548	32	3.2	1247	3	US-09-178-115-110	Sequence 110, Appl	C 621	32	3.2	36741	3	US-09-301-665-3	Sequence 3, Appl
C 549	32	3.2	1247	3	US-09-177-776-110	Sequence 110, Appl	C 622	32	3.2	43069	4	US-09-292-542A-1	Sequence 1, Appl
C 550	32	3.2	1361	4	US-09-489-847-64	Sequence 64, Appl	C 623	32	3.2	43069	4	US-09-292-542A-1	Sequence 1, Appl
C 551	32	3.2	1407	4	US-09-482-273-32	Sequence 32, Appl	C 624	32	3.2	43795	4	US-08-742-183-101	Sequence 101, Appl
C 552	32	3.2	1430	4	US-09-369-247-31	Sequence 31, Appl	C 625	32	3.2	44546	4	US-09-146-053-6	Sequence 6, Appl
C 553	32	3.2	1433	4	US-09-369-247-57	Sequence 57, Appl	C 626	32	3.2	49136	4	US-09-422-863-1	Sequence 1, Appl
C 554	32	3.2	1541	6	5183884-1	Patent No. 5183884	C 627	32	3.2	72604	4	US-09-268-992-7	Sequence 7, Appl
C 555	32	3.2	1542	1	US-07-978-895-1	Sequence 1, Appl	C 628	32	3.2	72604	4	US-09-657-474-7	Sequence 7, Appl
C 556	32	3.2	1542	1	US-08-473-119-1	Sequence 1, Appl	C 629	32	3.2	148567	4	US-09-801-876B-3	Sequence 3, Appl
C 557	32	3.2	1542	2	US-08-475-352-1	Sequence 1, Appl	C 630	31	3.1	281	4	US-09-495-050A-215	Sequence 275, Appl
C 558	32	3.2	1544	3	US-09-313-300-4	Sequence 4, Appl	C 631	31	3.1	289	2	US-08-481-658B-63	Sequence 63, Appl
C 559	32	3.2	1624	3	US-08-430-225A-19	Sequence 19, Appl	C 632	31	3.1	289	2	US-08-477-504A-63	Sequence 63, Appl
C 560	32	3.2	1634	4	US-09-320-132-111	Sequence 111, Appl	C 633	31	3.1	289	2	US-08-486-756A-63	Sequence 63, Appl
C 561	32	3.2	1853	4	US-09-439-313-369	Sequence 369, Appl	C 634	31	3.1	289	2	US-08-485-862B-63	Sequence 63, Appl
C 562	32	3.2	1853	4	US-09-462-451-295	Sequence 295, Appl	C 635	31	3.1	289	3	US-08-787-735-63	Sequence 63, Appl
C 563	32	3.2	1853	4	US-09-352-616A-369	Sequence 369, Appl	C 636	31	3.1	289	3	US-08-487-077A-63	Sequence 63, Appl
C 564	32	3.2	1853	4	US-09-289-198-295	Sequence 295, Appl	C 637	31	3.1	289	3	US-08-485-863A-63	Sequence 63, Appl
C 565	32	3.2	2133	3	US-08-808-032-1	Sequence 1, Appl	C 638	31	3.1	289	3	US-08-485-049D-63	Sequence 63, Appl
C 566	32	3.2	2184	4	US-09-439-313-370	Sequence 370, Appl	C 639	31	3.1	289	3	US-09-178-115-63	Sequence 63, Appl
C 567	32	3.2	2184	4	US-09-062-451-296	Sequence 296, Appl	C 640	31	3.1	289	3	US-09-177-776-63	Sequence 63, Appl
C 568	32	3.2	2184	4	US-09-352-616A-370	Sequence 370, Appl	C 641	31	3.1	321	3	US-09-385-983-366	Sequence 366, Appl
C 569	32	3.2	2184	4	US-09-289-198-296	Sequence 296, Appl	C 642	31	3.1	456	4	US-09-495-050A-256	Sequence 256, Appl
C 570	32	3.2	2201	1	US-08-580-401-1	Sequence 1, Appl	C 643	31	3.1	492	4	US-08-946-026-43	Sequence 43, Appl
C 571	32	3.2	2501	3	US-08-787-739-58	Sequence 58, Appl	C 644	31	3.1	619	4	US-09-152-060-17	Sequence 17, Appl
C 572	32	3.2	2501	3	US-09-178-115-58	Sequence 58, Appl	C 645	31	3.1	631	4	US-09-385-982-354	Sequence 354, Appl
C 573	32	3.2	2501	3	US-09-177-776-58	Sequence 58, Appl	C 646	31	3.1	655	4	US-09-227-357-100	Sequence 100, Appl
C 574	32	3.2	2643	4	US-09-016-434-1398	Sequence 1398, Appl	C 647	31	3.1	757	2	US-08-692-787-3	Sequence 3, Appl
C 575	32	3.2	2813	4	US-09-689-255C-3	Sequence 3, Appl	C 648	31	3.1	757	2	US-09-097-199-3	Sequence 3, Appl
C 576	32	3.2	2892	2	US-08-874-186-44	Sequence 44, Appl	C 649	31	3.1	780	3	US-09-385-982-32	Sequence 32, Appl
C 577	32	3.2	2972	1	US-08-453-695A-114	Sequence 114, Appl	C 650	31	3.1	866	3	US-08-943-731-31	Sequence 31, Appl
C 578	32	3.2	2972	1	US-08-268-161A-114	Sequence 114, Appl	C 651	31	3.1	907	4	US-09-996-243-398	Sequence 398, Appl
C 579	32	3.2	2972	2	US-08-453-702A-114	Sequence 114, Appl	C 652	31	3.1	956	4	US-09-369-247-47	Sequence 47, Appl
C 580	32	3.2	2972	2	US-09-099-639-114	Sequence 114, Appl	C 653	31	3.1	988	3	US-08-642-274D-53	Sequence 53, Appl
C 581	32	3.2	2972	5	PCT-US95-08071-114	Sequence 114, Appl	C 654	31	3.1	988	3	US-08-952-014C-53	Sequence 53, Appl
C 582	32	3.2	3001	4	US-09-539-333D-204	Sequence 204, Appl	C 655	31	3.1	1001	4	US-09-641-638-401	Sequence 401, Appl
C 583	32	3.2	3532	3	US-08-787-739-90	Sequence 90, Appl	C 656	31	3.1	1001	4	US-09-671-317-286	Sequence 286, Appl
C 584	32	3.2	3532	3	US-09-178-115-90	Sequence 90, Appl	C 657	31	3.1	1001	4	US-09-671-317-287	Sequence 287, Appl
C 585	32	3.2	3532	3	US-09-177-776-90	Sequence 90, Appl	C 658	31	3.1	1176	4	US-09-461-325-43	Sequence 43, Appl
C 586	32	3.2	3590	1	US-08-587-889-1	Sequence 1, Appl	C 659	31	3.1	1188	4	US-09-227-357-49	Sequence 49, Appl
C 587	32	3.2	3590	4	US-09-016-434-1093	Sequence 1093, Appl	C 660	31	3.1	1220	4	US-09-205-258-140	Sequence 140, Appl
C 588	32	3.2	3590	5	PCT-US96-09193-1	Sequence 1, Appl	C 661	31	3.1	1252	3	US-09-305-384-7	Sequence 7, Appl
C 589	32	3.2	3881	4	US-09-336-593A-1	Sequence 1, Appl	C 662	31	3.1	1334	2	US-08-481-658B-44	Sequence 44, Appl
C 590	32	3.2	4220	1	US-08-832-873-66	Sequence 66, Appl	C 663	31	3.1	1334	2	US-08-477-504A-44	Sequence 44, Appl
C 591	32	3.2	4220	2	US-08-832-877-66	Sequence 66, Appl	C 664	31	3.1	1334	2	US-08-486-756A-44	Sequence 44, Appl
C 592	32	3.2	4853	2	US-08-881-450A-22	Sequence 22, Appl	C 665	31	3.1	1334	2	US-08-485-862B-44	Sequence 44, Appl
C 593	32	3.2	5615	4	US-09-302-769-47	Sequence 47, Appl	C 666	31	3.1	1334	3	US-08-787-733-44	Sequence 44, Appl
C 594	32	3.2	6027	4	US-09-620-312D-517	Sequence 517, Appl	C 667	31	3.1	1334	3	US-08-487-077A-44	Sequence 44, Appl
C 595	32	3.2	7720	4	US-09-318-448-5	Sequence 5, Appl	C 668	31	3.1	1334	3	US-08-485-863A-44	Sequence 44, Appl
C 596	32	3.2	8326	4	US-09-328-174A-1	Sequence 1, Appl	C 669	31	3.1	1334	3	US-08-485-049D-44	Sequence 44, Appl
C 597	32	3.2	8409	3	US-09-167-681-37	Sequence 37, Appl	C 670	31	3.1	1334	3	US-09-178-115-44	Sequence 44, Appl
C 598	32	3.2	9573	4	US-09-220-132-168	Sequence 168, Appl	C 671	31	3.1	1334	3	US-09-177-776-44	Sequence 44, Appl
C 599	32	3.2	10898	2	US-08-481-658B-5	Sequence 5, Appl	C 672	31	3.1	1351	4	US-09-805-258-104	Sequence 104, Appl
C 600	32	3.2	10898	2	US-08-477-504A-5	Sequence 5, Appl	C 673	31	3.1	1391	4	US-09-461-325-22	Sequence 22, Appl
C 601	32	3.2	10898	2	US-08-486-756A-5	Sequence 5, Appl	C 674	31	3.1	1412	4	US-09-058-389A-12	Sequence 12, Appl
C 602	32	3.2	10898	2	US-08-485-862B-5	Sequence 5, Appl	C 675	31	3.1	1412	4	US-09-611-781-12	Sequence 12, Appl
C 603	32	3.2	10898	3	US-08-787-739-5	Sequence 5, Appl	C 676	31	3.1	1412	4	US-09-611-781-12	Sequence 12, Appl
C 604	32	3.2	10898	3	US-08-487-077A-5	Sequence 5, Appl	C 677	31	3.1	1412	4	US-09-611-781-12	Sequence 12, Appl
C 605	32	3.2	10898	3	US-08-485-863A-5	Sequence 5, Appl	C 678	31	3.1	1412	4	US-09-611-781-12	Sequence 12, Appl
C 606	32	3.2	10898	3	US-08-485-049D-5	Sequence 5, Appl	C 679	31	3.1	1412	4	US-09-611-781-12	Sequence 12, Appl
C 607	32	3.2	10898	3	US-09-178-115-5	Sequence 5, Appl	C 680	31	3.1	1412	4	US-09-611-781-12	Sequence 12, Appl
C 608	32	3.2	10898	3	US-09-177-776-5	Sequence 5, Appl	C 681	31	3.1	1412	4	US-09-611-781-12	Sequence 12, Appl
C 609	32	3.2	11298	1	US-07-669-933-31	Sequence 31, Appl	C 682	31	3.1	2280	4	US-09-736-457-321	Sequence 321, Appl
C 610	32	3.2	11298	1	US-08-201-879A-2	Sequence 2, Appl	C 683	31	3.1	2294	4	US-09-414-010-3	Sequence 3, Appl
C 611	32	3.2	11298	3	US-09-103-663-31	Sequence 31, Appl	C 684	31	3.1	2505	3	US-09-097-199-85	Sequence 85, Appl

C 685	31	3.1	2539	4	US-09-690-454-22	Sequence 22, Appl	C 758	30	3.0	317	3	US-09-385-982-109	Sequence 109, App
686	31	3.1	2589	6	5212286-1	Patent No. 5212286	C 759	30	3.0	341	4	US-09-404-879A-136	Sequence 136, App
687	31	3.1	2598	4	US-09-026-033-18	Sequence 18, Appl	C 760	30	3.0	341	4	US-09-338-933-136	Sequence 136, App
688	31	3.1	2821	2	US-08-680-395-6	Sequence 6, Appl	C 761	30	3.0	341	4	US-09-215-681-136	Sequence 136, App
C 689	31	3.1	2861	2	US-08-770-301A-12	Sequence 12, Appl	C 762	30	3.0	357	4	US-09-702-705-1626	Sequence 1626, App
C 690	31	3.1	2861	3	US-09-175-581-12	Sequence 12, Appl	C 763	30	3.0	357	4	US-09-736-457-1626	Sequence 26, Appl
C 691	31	3.1	2991	3	US-08-795-430-48	Sequence 48, Appl	C 764	30	3.0	446	2	US-08-332-766A-26	Sequence 306, App
C 692	31	3.1	2991	4	US-09-355-700-48	Sequence 48, Appl	C 765	30	3.0	457	4	US-09-643-597-306	Sequence 306, App
C 693	31	3.1	3001	4	US-09-539-333D-187	Sequence 187, App	C 766	30	3.0	457	4	US-09-480-884A-306	Sequence 306, App
C 694	31	3.1	3001	4	US-09-539-333D-195	Sequence 195, App	C 767	30	3.0	457	4	US-09-542-615A-306	Sequence 306, App
C 695	31	3.1	3158	2	US-08-464-517-36	Sequence 36, App	C 768	30	3.0	457	4	US-09-606-421B-306	Sequence 306, App
696	31	3.1	3158	2	US-08-246-361A-36	Sequence 36, Appl	C 769	30	3.0	461	4	US-09-404-879A-1	Sequence 1, Appl1
697	31	3.1	3158	2	US-08-463-772-36	Sequence 36, Appl	C 770	30	3.0	461	4	US-09-404-879A-1	Sequence 1, Appl1
C 698	31	3.1	3158	2	US-08-463-772-36	Sequence 36, Appl	C 771	30	3.0	461	4	US-09-338-933-1	Sequence 1, Appl1
C 699	31	3.1	3425	1	US-08-273-411-2	Sequence 2, Appl1	C 772	30	3.0	461	4	US-09-338-933-1	Sequence 1, Appl1
C 699	31	3.1	3425	4	US-09-800-971-1	Sequence 1, Appl1	C 773	30	3.0	461	4	US-09-338-933-1	Sequence 1, Appl1
700	31	3.1	3805	4	US-09-026-033-17	Sequence 17, Appl	C 774	30	3.0	461	4	US-09-315-681-3	Sequence 3, Appl1
701	31	3.1	3805	4	US-09-108-006C-3	Sequence 3, Appl1	C 775	30	3.0	462	3	US-09-315-681-3	Sequence 3, Appl1
702	31	3.1	4078	4	US-09-016-434-1109	Sequence 1109, App	C 776	30	3.0	483	2	US-08-475-844-14	Sequence 14, Appl
703	31	3.1	4183	3	US-09-460-145-1	Sequence 1, Appl1	C 777	30	3.0	483	2	US-08-475-844-14	Sequence 14, Appl
704	31	3.1	4183	3	US-09-895-547-1	Sequence 1, Appl1	C 778	30	3.0	508	3	US-09-058-389A-21	Sequence 21, Appl
705	31	3.1	4233	3	US-09-056-105-27	Sequence 27, Appl	C 779	30	3.0	508	3	US-09-058-389A-21	Sequence 21, Appl
706	31	3.1	4294	4	US-09-662-350A-3	Sequence 3, Appl1	C 780	30	3.0	547	3	US-08-991-789A-158	Sequence 158, App
707	31	3.1	4419	4	US-08-620-312D-187	Sequence 187, App	C 781	30	3.0	547	4	US-09-062-451-158	Sequence 158, App
708	31	3.1	4895	3	US-09-053-866-1	Sequence 1, Appl1	C 782	30	3.0	547	4	US-09-062-451-158	Sequence 158, App
709	31	3.1	4895	4	US-09-479-130-1	Sequence 1, Appl1	C 783	30	3.0	547	4	US-09-598-326-158	Sequence 158, App
C 710	31	3.1	4895	4	US-09-472-130A-1	Sequence 1, Appl1	C 784	30	3.0	566	4	US-09-289-198-158	Sequence 158, App
C 711	31	3.1	5917	4	US-09-780-175-17	Sequence 17, Appl	C 785	30	3.0	566	4	US-09-495-050A-112	Sequence 112, App
C 712	31	3.1	6354	4	US-09-058-389A-5	Sequence 5, Appl1	C 786	30	3.0	582	3	US-09-385-982-98	Sequence 98, Appl
C 713	31	3.1	6354	4	US-09-611-781-5	Sequence 5, Appl1	C 787	30	3.0	582	3	US-09-385-982-98	Sequence 98, Appl
C 714	31	3.1	6678	3	US-08-816-617A-1	Sequence 1, Appl1	C 788	30	3.0	609	3	US-09-385-982-98	Sequence 98, Appl
C 715	31	3.1	6987	4	US-09-026-033-23	Sequence 23, Appl	C 789	30	3.0	615	3	US-09-385-982-98	Sequence 98, Appl
716	31	3.1	6990	4	US-09-026-033-23	Sequence 23, Appl	C 790	30	3.0	722	4	US-09-227-357-112	Sequence 112, App
717	31	3.1	8342	5	US-08-545-860D-63	Sequence 63, Appl	C 791	30	3.0	752	4	US-09-288-143-63	Sequence 63, Appl
718	31	3.1	8342	5	PCT-US94-04496-63	Sequence 63, Appl	C 792	30	3.0	769	3	US-08-642-274D-28	Sequence 28, Appl
719	31	3.1	8392	1	US-08-080-255-6	Sequence 6, Appl1	C 793	30	3.0	769	3	US-08-952-014C-28	Sequence 28, Appl
720	31	3.1	8392	1	US-08-465-713-6	Sequence 6, Appl1	C 794	30	3.0	776	4	US-09-535-008-37	Sequence 37, Appl
721	31	3.1	8392	5	PCT-US93-05857-6	Sequence 6, Appl1	C 795	30	3.0	851	4	US-09-495-050A-118	Sequence 118, App
722	31	3.1	10079	2	US-08-476-866-20	Sequence 20, Appl	C 796	30	3.0	889	4	US-09-227-357-88	Sequence 88, Appl
723	31	3.1	10825	3	US-08-652-265-1	Sequence 1, Appl1	C 797	30	3.0	949	4	US-09-247-155-148	Sequence 148, App
724	31	3.1	10825	3	US-08-652-265-1	Sequence 3, Appl1	C 798	30	3.0	987	4	US-09-671-317-466	Sequence 466, App
725	31	3.1	10825	3	US-08-652-265-5	Sequence 5, Appl1	C 799	30	3.0	1001	4	US-09-641-638-396	Sequence 396, App
726	31	3.1	10825	3	US-08-652-265-7	Sequence 7, Appl1	C 800	30	3.0	1001	4	US-09-641-638-396	Sequence 396, App
727	31	3.1	10825	3	US-08-834-497A-1	Sequence 1, Appl1	C 801	30	3.0	1001	4	US-09-671-317-184	Sequence 184, App
728	31	3.1	10825	3	US-08-834-497A-3	Sequence 3, Appl1	C 802	30	3.0	1001	4	US-09-671-317-184	Sequence 184, App
729	31	3.1	10825	3	US-08-834-497A-5	Sequence 5, Appl1	C 803	30	3.0	1001	4	US-09-671-317-268	Sequence 268, App
730	31	3.1	10825	3	US-08-834-497A-7	Sequence 7, Appl1	C 804	30	3.0	1001	4	US-09-671-317-270	Sequence 270, App
731	31	3.1	10825	3	US-09-503-444A-1	Sequence 1, Appl1	C 805	30	3.0	1001	4	US-09-671-317-273	Sequence 273, App
732	31	3.1	10825	3	US-09-503-444A-3	Sequence 3, Appl1	C 806	30	3.0	1001	4	US-09-671-317-455	Sequence 455, App
733	31	3.1	10825	3	US-09-503-444A-5	Sequence 5, Appl1	C 807	30	3.0	1022	3	US-08-943-731-210	Sequence 210, App
734	31	3.1	10825	3	US-09-503-444A-7	Sequence 7, Appl1	C 808	30	3.0	1024	4	US-09-328-475C-51	Sequence 51, Appl
735	31	3.1	12146	4	US-09-277-457-27	Sequence 27, Appl	C 809	30	3.0	1037	4	US-09-484-970B-130	Sequence 130, App
736	31	3.1	12146	4	US-09-679-729-27	Sequence 27, Appl	C 810	30	3.0	1106	3	US-08-755-587-18	Sequence 18, App
C 737	31	3.1	12394	4	US-09-488-856A-10	Sequence 10, Appl	C 811	30	3.0	1125	4	US-09-620-312D-661	Sequence 661, App
C 738	31	3.1	12847	1	US-08-350-715-1	Sequence 1, Appl1	C 812	30	3.0	1183	3	US-08-522-813-1	Sequence 1, Appl1
C 739	31	3.1	13205	4	US-09-835-811-3	Sequence 3, Appl1	C 813	30	3.0	1183	3	US-08-522-813-1	Sequence 1, Appl1
C 740	31	3.1	13953	4	US-09-738-884-3	Sequence 3, Appl1	C 814	30	3.0	1243	3	US-09-918-686-19	Sequence 19, Appl
741	31	3.1	15602	4	US-09-844-634-17	Sequence 17, Appl	C 815	30	3.0	1243	3	US-09-103-875-16	Sequence 16, Appl
742	31	3.1	18609	4	US-08-943-731-1	Sequence 1, Appl1	C 816	30	3.0	1250	3	US-09-018-584A-36	Sequence 36, Appl
C 743	31	3.1	18853	4	US-09-820-005-3	Sequence 3, Appl1	C 817	30	3.0	1264	4	US-09-690-454-32	Sequence 32, Appl
C 744	31	3.1	24707	4	US-09-740-027-3	Sequence 3, Appl1	C 818	30	3.0	1113	1	US-08-446-925-6	Sequence 6, Appl1
C 745	31	3.1	31208	4	US-09-852-067-3	Sequence 3, Appl1	C 819	30	3.0	1113	1	US-08-446-925-6	Sequence 6, Appl1
746	31	3.1	50000	4	US-09-146-053-4	Sequence 4, Appl1	C 820	30	3.0	1113	2	US-08-896-885-6	Sequence 6, Appl1
747	31	3.1	55616	2	US-08-996-306-1	Sequence 1, Appl1	C 821	30	3.0	1113	4	US-09-375-256-6	Sequence 6, Appl1
748	31	3.1	55616	3	US-09-338-907-1	Sequence 1, Appl1	C 822	30	3.0	1113	4	US-09-375-256-6	Sequence 6, Appl1
749	31	3.1	55616	4	US-09-218-207-1	Sequence 1, Appl1	C 823	30	3.0	1120	4	US-09-679-299A-3	Sequence 3, Appl1
750	31	3.1	55620	3	US-09-338-907-179	Sequence 179, App	C 824	30	3.0	1284	4	US-09-370-838-22	Sequence 22, Appl
751	31	3.1	55620	4	US-09-218-207-179	Sequence 179, App	C 825	30	3.0	1331	4	US-09-370-838-24	Sequence 24, Appl
752	31	3.1	98844	4	US-09-791-211-10	Sequence 10, Appl	C 826	30	3.0	1333	4	US-09-370-838-28	Sequence 28, Appl
753	30	3.0	40	1	US-09-060-023A-1	Sequence 1, Appl1	C 827	30	3.0	1355	4	US-09-370-838-31	Sequence 31, Appl
754	30	3.0	200	1	US-08-438-500-1	Sequence 1, Appl1	C 828	30	3.0	1381	2	US-08-454-557C-49	Sequence 49, Appl
755	30	3.0	200	1	US-08-477-442-1	Sequence 1, Appl1	C 829	30	3.0	1381	2	US-08-340-426D-49	Sequence 49, Appl
756	30	3.0	200	1	PCT-US94-05910-1	Sequence 1, Appl1	C 830	30	3.0	1381	2	US-08-450-673C-49	Sequence 49, Appl
757	30	3.0	227	3	US-08-522-813-2	Sequence 2, Appl1							

C 831	30	3.0	1381	5	PCT-US95-17111A-49	Sequence 49, Appl	C 904	30	3.0	4335	3	US-08-974-549A-6	Sequence 6, Appl
C 832	30	3.0	1418	5	PCT-US95-17111A-120	Sequence 120, App	C 905	30	3.0	4421	2	US-08-257-963B-9	Sequence 9, Appl
C 833	30	3.0	1442	2	US-08-454-557C-110	Sequence 120, App	C 906	30	3.0	4421	2	US-08-367-841A-9	Sequence 9, Appl
C 834	30	3.0	1442	2	US-08-340-426D-130	Sequence 120, App	C 907	30	3.0	4421	4	US-08-520-337D-6	Sequence 6, Appl
C 835	30	3.0	1442	2	US-08-450-673C-120	Sequence 120, App	C 908	30	3.0	4421	5	PCT-US95-07221-9	Sequence 9, Appl
C 836	30	3.0	1545	1	US-08-446-923-4	Sequence 4, Appl	C 909	30	3.0	4460	3	US-09-103-875-4	Sequence 4, Appl
C 837	30	3.0	1545	2	US-09-146-331-4	Sequence 4, Appl	C 910	30	3.0	4773	3	US-08-884-324-9	Sequence 9, Appl
C 838	30	3.0	1545	2	US-08-896-885-4	Sequence 4, Appl	C 911	30	3.0	4811	3	US-09-569-855B-2	Sequence 2, Appl
C 839	30	3.0	1545	4	US-09-375-256-4	Sequence 4, Appl	C 912	30	3.0	4823	2	US-08-457-254-5	Sequence 5, Appl
C 840	30	3.0	1545	4	US-09-376-156-4	Sequence 4, Appl	C 913	30	3.0	4823	2	US-08-484-257-20	Sequence 20, Appl
C 841	30	3.0	1545	4	US-09-679-299A-17	Sequence 17, Appl	C 914	30	3.0	4823	3	US-08-999-922-5	Sequence 5, Appl
C 842	30	3.0	1613	2	US-08-812-204-1	Sequence 1, Appl	C 915	30	3.0	4823	4	US-08-461-819-5	Sequence 5, Appl
C 843	30	3.0	1758	4	US-09-370-838-25	Sequence 25, Appl	C 916	30	3.0	4823	5	PCT-US94-08806-8	Sequence 28, Appl
C 844	30	3.0	1950	1	US-08-592-126-93	Sequence 93, Appl	C 917	30	3.0	4823	5	PCT-US95-01839-5	Sequence 5, Appl
C 845	30	3.0	1950	4	US-09-168-595-93	Sequence 93, Appl	C 918	30	3.0	4823	5	PCT-US95-16626-5	Sequence 5, Appl
C 846	30	3.0	2000	3	US-09-039-555B-19	Sequence 19, Appl	C 919	30	3.0	4858	4	US-09-595-684B-8	Sequence 28, Appl
C 847	30	3.0	2040	1	US-08-599-252-103	Sequence 103, App	C 920	30	3.0	5039	4	US-09-386-816C-1	Sequence 1, Appl
C 848	30	3.0	2040	5	PCT-US96-06352-103	Sequence 103, App	C 921	30	3.0	5044	4	US-09-735-935-3	Sequence 3, Appl
C 849	30	3.0	2040	5	PCT-US96-06583-103	Sequence 103, App	C 922	30	3.0	5095	1	US-08-092-817-3	Sequence 3, Appl
C 850	30	3.0	2125	3	US-09-305-639-6	Sequence 6, Appl	C 923	30	3.0	5095	4	US-08-485-128-3	Sequence 3, Appl
C 851	30	3.0	2150	4	US-09-461-325-76	Sequence 76, Appl	C 924	30	3.0	5143	1	US-08-574-043A-7	Sequence 7, Appl
C 852	30	3.0	2191	4	US-09-482-273-79	Sequence 79, Appl	C 925	30	3.0	5143	2	US-08-795-015-7	Sequence 2, Appl
C 853	30	3.0	2254	1	US-08-153-848-27	Sequence 27, Appl	C 926	30	3.0	5232	3	US-09-212-971-3	Sequence 3, Appl
C 854	30	3.0	2254	3	US-09-239-843A-27	Sequence 27, Appl	C 927	30	3.0	5232	3	US-08-800-928A-3	Sequence 3, Appl
C 855	30	3.0	2254	4	US-09-088-337B-27	Sequence 27, Appl	C 928	30	3.0	5232	4	US-09-617-053A-3	Sequence 3, Appl
C 856	30	3.0	2254	5	PCT-US93-11153-27	Sequence 27, Appl	C 929	30	3.0	5232	2	US-08-687-080-101	Sequence 101, App
C 857	30	3.0	2349	4	US-09-489-847-41	Sequence 41, Appl	C 930	30	3.0	5235	3	US-09-033-333-3	Sequence 3, Appl
C 858	30	3.0	2377	4	US-08-556-627A-3	Sequence 3, Appl	C 931	30	3.0	5235	4	US-09-033-333-3	Sequence 2, Appl
C 859	30	3.0	2396	3	US-09-058-389A-10	Sequence 10, Appl	C 932	30	3.0	5235	4	US-09-614-495-3	Sequence 3, Appl
C 860	30	3.0	2396	4	US-09-611-781-10	Sequence 10, Appl	C 933	30	3.0	5236	1	US-08-380-916-1	Sequence 1, Appl
C 861	30	3.0	2933	1	US-08-480-449-1	Sequence 1, Appl	C 934	30	3.0	5236	3	US-08-721-690-1	Sequence 1, Appl
C 862	30	3.0	2933	2	US-08-660-542-1	Sequence 1, Appl	C 935	30	3.0	5236	3	US-08-891-581-1	Sequence 1, Appl
C 863	30	3.0	2933	4	US-08-479-603-1	Sequence 1, Appl	C 936	30	3.0	5236	3	US-09-033-333-2	Sequence 2, Appl
C 864	30	3.0	2933	4	US-08-939-107-1	Sequence 1, Appl	C 937	30	3.0	5236	4	US-09-033-333-2	Sequence 2, Appl
C 865	30	3.0	2933	4	US-08-931-764-1	Sequence 1, Appl	C 938	30	3.0	5236	4	US-09-614-495-2	Sequence 2, Appl
C 866	30	3.0	2933	4	US-09-591-992-1	Sequence 1, Appl	C 939	30	3.0	5236	4	US-09-474-699-9	Sequence 9, Appl
C 867	30	3.0	2937	3	US-09-232-878-5	Sequence 5, Appl	C 940	30	3.0	6038	3	US-09-305-639-4	Sequence 4, Appl
C 868	30	3.0	2937	4	US-09-016-434-1419	Sequence 1419, App	C 941	30	3.0	6038	4	US-09-525-160B-2	Sequence 2, Appl
C 869	30	3.0	2952	2	US-08-394-152A-48	Sequence 48, Appl	C 942	30	3.0	6246	3	US-08-943-731-640	Sequence 640, App
C 870	30	3.0	3001	4	US-09-539-333D-116	Sequence 136, App	C 943	30	3.0	6669	3	US-09-212-971-5	Sequence 5, Appl
C 871	30	3.0	3001	4	US-09-539-333D-157	Sequence 157, App	C 944	30	3.0	6669	3	US-08-800-928A-5	Sequence 5, Appl
C 872	30	3.0	3001	4	US-09-539-333D-188	Sequence 188, App	C 945	30	3.0	6669	4	US-09-617-053A-5	Sequence 5, Appl
C 873	30	3.0	3001	4	US-09-539-333D-194	Sequence 194, App	C 946	30	3.0	6690	4	US-09-620-312D-155	Sequence 155, App
C 874	30	3.0	3001	4	US-09-539-333D-229	Sequence 229, App	C 947	30	3.0	7452	3	US-08-520-500-1	Sequence 1, Appl
C 875	30	3.0	3017	2	US-08-394-152A-39	Sequence 39, Appl	C 948	30	3.0	7452	3	US-08-195-006-1	Sequence 1, Appl
C 876	30	3.0	3017	4	US-08-705-477B-39	Sequence 39, Appl	C 949	30	3.0	7452	5	PCT-US94-07644A-1	Sequence 1, Appl
C 877	30	3.0	3017	4	US-08-705-477B-128	Sequence 128, App	C 950	30	3.0	7622	3	US-09-305-639-1	Sequence 1, Appl
C 878	30	3.0	3017	4	US-08-705-477B-128	Sequence 128, App	C 951	30	3.0	7622	4	US-09-525-160B-1	Sequence 1, Appl
C 879	30	3.0	3027	4	US-09-620-312D-563	Sequence 563, App	C 952	30	3.0	8835	3	US-08-884-324-10	Sequence 10, Appl
C 880	30	3.0	3061	4	US-09-620-312D-140	Sequence 140, App	C 953	30	3.0	8878	1	US-08-206-176-3	Sequence 3, Appl
C 881	30	3.0	3077	4	US-08-705-477B-90	Sequence 90, Appl	C 954	30	3.0	9301	4	US-09-449-218D-18	Sequence 18, Appl
C 882	30	3.0	3077	4	US-08-705-477B-90	Sequence 90, Appl	C 955	30	3.0	9301	4	US-09-668-528A-18	Sequence 18, Appl
C 883	30	3.0	3089	4	US-09-596-243-46	Sequence 46, Appl	C 956	30	3.0	9301	4	US-09-668-528A-18	Sequence 18, Appl
C 884	30	3.0	3172	4	US-08-978-289-11	Sequence 11, Appl	C 957	30	3.0	9301	4	US-09-814-951A-3	Sequence 3, Appl
C 885	30	3.0	3198	4	US-09-601-478-3	Sequence 3, Appl	C 958	30	3.0	10380	3	US-09-077-354B-3	Sequence 3, Appl
C 886	30	3.0	3262	4	US-09-620-312D-119	Sequence 139, App	C 959	30	3.0	11298	1	US-07-869-933-31	Sequence 31, Appl
C 887	30	3.0	3433	4	US-09-820-924A-1	Sequence 1, Appl	C 960	30	3.0	11298	1	US-08-201-879A-2	Sequence 2, Appl
C 888	30	3.0	3602	2	US-08-820-170A-30	Sequence 30, Appl	C 961	30	3.0	11298	3	US-09-103-663-31	Sequence 31, Appl
C 889	30	3.0	3602	3	US-09-055-699-30	Sequence 30, Appl	C 962	30	3.0	11298	3	US-08-884-324-13	Sequence 13, Appl
C 890	30	3.0	3602	3	US-09-273-565-30	Sequence 30, Appl	C 963	30	3.0	11531	1	US-08-068-944A-1	Sequence 1, Appl
C 891	30	3.0	3602	4	US-09-565-538-30	Sequence 30, Appl	C 964	30	3.0	11531	1	US-08-442-806-1	Sequence 1, Appl
C 892	30	3.0	3602	4	US-09-661-468-30	Sequence 30, Appl	C 965	30	3.0	11531	4	US-09-335-295B-1	Sequence 1, Appl
C 893	30	3.0	3602	4	US-09-976-165-30	Sequence 30, Appl	C 966	30	3.0	12565	3	US-09-345-217-3	Sequence 3, Appl
C 894	30	3.0	3602	4	US-09-976-165-30	Sequence 30, Appl	C 967	30	3.0	12597	4	US-09-705-299-12	Sequence 12, Appl
C 895	30	3.0	3663	3	US-09-499-884-11	Sequence 11, Appl	C 968	30	3.0	13865	3	US-09-009-217-11	Sequence 11, Appl
C 896	30	3.0	3804	4	US-09-620-312D-894	Sequence 894, App	C 969	30	3.0	13865	3	US-09-009-656-11	Sequence 11, Appl
C 897	30	3.0	4084	3	US-08-866-340-1	Sequence 1, Appl	C 970	30	3.0	15118	4	US-09-783-203-1	Sequence 1, Appl
C 898	30	3.0	4084	3	US-08-866-340-1	Sequence 1, Appl	C 971	30	3.0	15118	4	US-09-146-053-7	Sequence 7, Appl
C 899	30	3.0	4086	4	US-09-702-705-1801	Sequence 1801, App	C 972	30	3.0	17041	1	US-08-076-011-1	Sequence 1, Appl
C 900	30	3.0	4086	4	US-09-736-457-1801	Sequence 1801, App	C 973	30	3.0	17425	4	US-09-511-625B-5	Sequence 5, Appl
C 901	30	3.0	4129	2	US-08-370-319C-12	Sequence 12, Appl	C 974	30	3.0	20666	4	US-09-776-976-7	Sequence 7, Appl
C 902	30	3.0	4129	2	US-09-224-834-12	Sequence 12, Appl	C 975	30	3.0	20666	4	US-09-909-547-7	Sequence 7, Appl
C 903	30	3.0	4285	3	US-09-040-774-1	Sequence 1, Appl	C 976	30	3.0	20966	4	US-09-569-852B-1	Sequence 1, Appl

Query Match 4.7%; Score 47; DB 2; Length 1947;
Best Local Similarity 100.0%; Pred. No. 2e-13;
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 228 GGGTGGCGGTGGCTGACACCTGTATCCGACGACTTTGGAGGCTGAG 274
DB 1658 GGGTGGCGGTGGCTGACACCTGTATCCGACGACTTTGGAGGCTGAG 1704

RESULT 5
US-09-740-041-3/C
; Sequence 3, Application US/09740041
; Patent No. 6562593
; GENERAL INFORMATION:
; APPLICANT: MERKULOV, Karl et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; FILE REFERENCE: CL001001
; CURRENT APPLICATION NUMBER: US/09/740,041
; CURRENT FILING DATE: 2000-12-20
; NUMBER OF SEQ. ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 66804
; TYPE: DNA
; ORGANISM: Human
US-09-740-041-3

Query Match 4.7%; Score 47; DB 4; Length 66804;
Best Local Similarity 100.0%; Pred. No. 2e-13;
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 228 GGGTGGCGGTGGCTGACACCTGTATCCGACGACTTTGGAGGCTGAG 274
DB 35282 GGGTGGCGGTGGCTGACACCTGTATCCGACGACTTTGGAGGCTGAG 35236

RESULT 6
US-09-679-299A-18/C
; Sequence 18, Application US/09679299A
; Patent No. 6566135
; GENERAL INFORMATION:
; APPLICANT: Vickie L. Brown-Driver
; APPLICANT: Hong Zhang
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF CASPASE 6 EXPRESSION
; FILE REFERENCE: RUS-0187
; CURRENT APPLICATION NUMBER: US/09/679,299A
; CURRENT FILING DATE: 2000-10-04
; NUMBER OF SEQ. ID NOS: 164
; SEQ ID NO 18
; LENGTH: 17000
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-679-299A-18

Query Match 4.6%; Score 46; DB 4; Length 17000;
Best Local Similarity 100.0%; Pred. No. 6e-13;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 170 AGACGAGCTGGCCACACGCGTGAACCCCATCTCTACTAAATA 215
DB 8922 AGACGAGCTGGCCACACGCGTGAACCCCATCTCTACTAAATA 8877

RESULT 7
US-09-759-359A-3/C
; Sequence 3, Application US/09759359A
; Patent No. 6492153
; GENERAL INFORMATION:
; APPLICANT: ABU-THREIDEH, Jane et al

; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: THEREOF
; FILE REFERENCE: CL001043
; CURRENT APPLICATION NUMBER: US/09/759,359A
; CURRENT FILING DATE: 2001-01-16
; NUMBER OF SEQ. ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 90541
; TYPE: DNA
; ORGANISM: Human
US-09-759-359A-3

Query Match 4.6%; Score 46; DB 4; Length 90541;
Best Local Similarity 100.0%; Pred. No. 6.1e-13;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 170 AGACGAGCTGGCCACACGCGTGAACCCCATCTCTACTAAATA 215
DB 35303 AGACGAGCTGGCCACACGCGTGAACCCCATCTCTACTAAATA 35258

RESULT 8
US-09-735-934A-3
; Sequence 3, Application US/09735934A
; Patent No. 6372468
; GENERAL INFORMATION:
; APPLICANT: LI, Jiajin et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: THEREOF
; FILE REFERENCE: CL000851
; CURRENT APPLICATION NUMBER: US/09/735,934A
; CURRENT FILING DATE: 2000-12-14
; NUMBER OF SEQ. ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 43950
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-735-934A-3

Query Match 4.5%; Score 45; DB 4; Length 43950;
Best Local Similarity 100.0%; Pred. No. 1.9e-12;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 367 GTGGTGGACAGCGCTGTGTGCTCCAGCTACTTGGAGGCTGAGGC 411
DB 7510 GTGGTGGACAGCGCTGTGTGCTCCAGCTACTTGGAGGCTGAGGC 7554

RESULT 9
US-10-060-332-3
; Sequence 3, Application US/10060332
; Patent No. 6528294
; GENERAL INFORMATION:
; APPLICANT: LI, Jiajin et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: THEREOF
; FILE REFERENCE: CL000851DIV
; CURRENT APPLICATION NUMBER: US/10/060,332
; CURRENT FILING DATE: 2002-02-01
; NUMBER OF SEQ. ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 43950
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-332-3

Query Match 4.5%; Score 45; DB 4; Length 43950;

Best Local Similarity 100.0%; Pred. No. 1.9e-12;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 367 GAGGTGGACACGCGCTGTAGTATCCAGCTATTGGAGGCTGAGC 411
Db 7510 GTGGTGGACACGCGCTGTAGTATCCAGCTATTGGAGGCTGAGC 7554

RESULT 10

US-09-851-896-3/c
Sequence 3, Application US/09851896
Patent No. 6410325

GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Susan M. Freier
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHOLIPASE A2, GROUP VI (CA2+-INDEPENDENT)
FILE REFERENCE: RTS-0220
CURRENT APPLICATION NUMBER: US/09/851,896
CURRENT FILING DATE: 2001-05-08
NUMBER OF SEQ ID NOS: 89
SEQ ID NO 3
LENGTH: 70000
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:

US-09-851-896-3

Query Match 4.5%; Score 45; DB 4; Length 70000;
Best Local Similarity 100.0%; Pred. No. 1.9e-12;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 512 ATAAATATAATATAATATAATATAATATAATATAATATAATATA 556
Db 35889 ATAAATATAATATAATATAATATAATATAATATAATATAATATA 35845

RESULT 11

US-09-705-299-11
Sequence 11, Application US/09705299
Patent No. 6440737

GENERAL INFORMATION:
APPLICANT: Lex M. Cowseert
APPLICANT: Susan M. Freier
TITLE OF INVENTION: ANTISENSE MODULATION OF CELLULAR APOPTOSIS SUSCEPTIBILITY GENE
FILE REFERENCE: RTS-0174
CURRENT APPLICATION NUMBER: US/09/705,299
CURRENT FILING DATE: 2000-11-01
NUMBER OF SEQ ID NOS: 86
SEQ ID NO 11
LENGTH: 3609
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:

OTHER INFORMATION:
NAME/KEY: unsure
LOCATION: 92
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 869
OTHER INFORMATION: unknown
NAME/KEY: unknown
LOCATION: 1385
OTHER INFORMATION: unknown
US-09-705-299-11

Query Match 4.4%; Score 44; DB 4; Length 3609;
Best Local Similarity 100.0%; Pred. No. 5.6e-12;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 231 TGGGTGGCTCACACTGTATATCCAGCACTTTGGAGGCTGAG 274

Db 1990 TGGGTGGCTCACACTGTATATCCAGCACTTTGGAGGCTGAG 2033

RESULT 12

US-09-691-861A-3/c
Sequence 3, Application US/09691861A
Patent No. 6482935

GENERAL INFORMATION:
APPLICANT: Wei, Ming-Hui et al.
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
THEREOF
FILE REFERENCE: CL000892
CURRENT APPLICATION NUMBER: US/09/691,861A
CURRENT FILING DATE: 2000-10-18
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 9862
TYPE: DNA
ORGANISM: Homo sapiens
US-09-691-861A-3

Query Match 4.4%; Score 44; DB 4; Length 9862;
Best Local Similarity 100.0%; Pred. No. 5.7e-12;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 368 TGGTGGACACGCGCTGTAGTATCCAGCTATTGGAGGCTGAGC 411
Db 4344 TGGTGGACACGCGCTGTAGTATCCAGCTATTGGAGGCTGAGC 4301

RESULT 13

US-09-491-356C-1/c
Sequence 1, Application US/09491356C
Patent No. 6566061

GENERAL INFORMATION:
APPLICANT: Philibert, Robert A.
APPLICANT: Gims, Edward I.
APPLICANT: Delisi, Lynn
TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCT4 REGION OF X013
FILE REFERENCE: 9465.60S11
CURRENT APPLICATION NUMBER: US/09/491,356C
CURRENT FILING DATE: 2000-01-26
PRIOR APPLICATION NUMBER: PCT/US99/09365
PRIOR FILING DATE: 1999-04-29
PRIOR APPLICATION NUMBER: 60/083,465
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 55298
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:

NAME/KEY: misc feature
LOCATION: (485)..
OTHER INFORMATION: n is not determined
NAME/KEY: misc feature
LOCATION: (838)..
OTHER INFORMATION: n is not determined
NAME/KEY: misc feature
LOCATION: (16728)..
OTHER INFORMATION: n is not determined
NAME/KEY: misc feature
LOCATION: (22750)..
OTHER INFORMATION: n is not determined
NAME/KEY: misc feature
LOCATION: (22756)..
OTHER INFORMATION: n is not determined
NAME/KEY: misc feature
LOCATION: (28519)..
OTHER INFORMATION: n is not determined

NAME/KEY: misc feature
LOCATION: (44804)..(44804)
OTHER INFORMATION: n is not determined
NAME/KEY: misc feature
LOCATION: (45002)..(45002)
OTHER INFORMATION: n is not determined
NAME/KEY: misc feature
LOCATION: (54049)..(54049)
OTHER INFORMATION: n is not determined
NAME/KEY: misc feature
LOCATION: (54226)..(54226)
OTHER INFORMATION: n is not determined
US-09-491-356C-1

Query Match 4.4%; Score 44; DB 4; Length 55298;
Best Local Similarity 100.0%; Pred. No. 5.7e-12;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 228 GGGTGGCGTGGCTCACACCTGTATCCGACACTTTGGAGGCT 271
DB 23025 GGGTGGCGTGGCTCACACCTGTATCCGACACTTTGGAGGCT 22982

RESULT 14
US-09-813-817-3
Sequence 3, Application US/09813817
Patent No. 6340583
GENERAL INFORMATION:
APPLICANT: YAN, Chunhua et al.
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: C1001178
CURRENT APPLICATION NUMBER: US/09/813,817
CURRENT FILING DATE: 2001-03-22
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 59065
TYPE: DNA
ORGANISM: Human
US-09-813-817-3

Query Match 4.4%; Score 44; DB 4; Length 59065;
Best Local Similarity 100.0%; Pred. No. 5.7e-12;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 334 CGTCTCTACTAAATACAAATTTAGCCAGGTGTGGTGACACA 377
DB 58882 CGTCTCTACTAAATACAAATTTAGCCAGGTGTGGTGACACA 58925

RESULT 15
US-09-813-817-3/C
Sequence 3, Application US/09813817
Patent No. 6340583
GENERAL INFORMATION:
APPLICANT: YAN, Chunhua et al.
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: C1001178
CURRENT APPLICATION NUMBER: US/09/813,817
CURRENT FILING DATE: 2001-03-22
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 59065
TYPE: DNA
ORGANISM: Human
US-09-813-817-3

Query Match 4.4%; Score 44; DB 4; Length 59065;

Best Local Similarity 100.0%; Pred. No. 5.7e-12;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 512 ATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 555
DB 3447 ATAAATTAATTAATTAATTAATTAATTAATTAATTAATTA 3404

Search completed: October 9, 2003, 16:05:12
Job time: 123.048 secs

C 90	4.9	855	13	US-10-027-632-29606	Sequence 29606, A
91	4.9	1720	13	US-10-027-632-25580	Sequence 25580,
92	4.9	1720	13	US-10-027-632-25581	Sequence 25581,
93	4.9	6306	14	US-10-239-676-129	Sequence 129, App
94	4.9	6668	12	US-10-311-455-1659	Sequence 1659, App
95	4.9	6668	12	US-10-311-455-1670	Sequence 1670, App
96	4.9	9238	12	US-10-240-453-239	Sequence 239, App
97	4.9	24533	10	US-09-764-868-1349	Sequence 1349, App
98	4.9	99014	10	US-09-880-107-3428	Sequence 3428, App
99	4.9	99014	10	US-09-880-107-3428	Sequence 3428, App
C 100	4.9	402850	11	US-09-844-653-5	Sequence 5, App11
101	4.9	402850	11	US-09-844-653-5	Sequence 5, App11
102	4.9	1503841	9	US-09-795-668-1	Sequence 1, App11
103	4.9	1503841	9	US-09-795-668-1	Sequence 1, App11
104	4.9	1503841	10	US-10-027-632-114763	Sequence 114763,
C 105	4.9	2940917	13	US-09-803-719-1933	Sequence 1933, App
106	4.8	283	11	US-10-198-846-11943	Sequence 11943, A
107	4.8	348	14	US-09-814-353-17788	Sequence 17788, A
108	4.8	584	12	US-09-814-353-21484	Sequence 21484, A
109	4.8	637	12	US-09-814-353-5112	Sequence 5112, App
110	4.8	637	12	US-09-814-353-11404	Sequence 11404, A
111	4.8	637	12	US-10-027-632-164599	Sequence 164599,
112	4.8	666	13	US-10-027-632-132627	Sequence 132627,
113	4.8	827	14	US-10-198-846-3812	Sequence 3812, App
114	4.8	184	9	US-10-027-632-118445	Sequence 118445,
C 115	4.8	1514	3	US-09-822-849A-510	Sequence 510, App
116	4.8	7116	14	US-10-177-293-491	Sequence 491, App
C 117	4.8	7147	14	US-10-177-293-493	Sequence 493, App
118	4.8	25760	11	US-09-999-121-13	Sequence 13, App1
119	4.8	481	13	US-10-027-632-312148	Sequence 312148,
C 120	4.8	114793	12	US-10-148-806-3	Sequence 3, App1
121	4.8	180216	9	US-09-835-232-6	Sequence 6, App1
C 122	4.8	402850	11	US-10-085-906-255	Sequence 255, App
123	4.7	337	9	US-09-764-869-1528	Sequence 1528, App
124	4.7	337	11	US-09-818-995-18533	Sequence 18533, A
125	4.7	448	10	US-10-060-036-1026	Sequence 1026, App
C 126	4.7	448	10	US-10-060-036-1026	Sequence 1026, App
127	4.7	481	13	US-10-027-632-312148	Sequence 312148,
128	4.7	481	13	US-10-027-632-312148	Sequence 312148,
129	4.7	481	13	US-10-027-632-312148	Sequence 312148,
130	4.7	481	13	US-10-027-632-312148	Sequence 312148,
131	4.7	514	13	US-10-027-632-4851	Sequence 4851, App
C 132	4.7	514	13	US-10-027-632-4851	Sequence 4851, App
133	4.7	514	13	US-10-027-632-4851	Sequence 4851, App
C 134	4.7	562	10	US-09-764-877-2628	Sequence 2628, App
135	4.7	562	10	US-09-764-877-2628	Sequence 2628, App
136	4.7	577	13	US-10-027-632-49132	Sequence 49132, A
C 137	4.7	585	13	US-10-027-632-256328	Sequence 256328,
138	4.7	610	13	US-10-027-632-71190	Sequence 71190, A
C 139	4.7	623	13	US-10-027-632-222315	Sequence 222315,
140	4.7	623	13	US-10-027-632-222315	Sequence 222315,
C 141	4.7	624	13	US-10-027-632-222316	Sequence 222316,
142	4.7	654	13	US-10-027-632-213622	Sequence 213622,
C 143	4.7	654	13	US-10-027-632-213622	Sequence 213622,
C 144	4.7	654	13	US-10-027-632-213622	Sequence 213622,
C 145	4.7	680	13	US-10-027-632-105685	Sequence 105685,
C 146	4.7	712	13	US-10-027-632-152190	Sequence 152190,
147	4.7	712	13	US-10-027-632-152190	Sequence 152190,
C 148	4.7	726	13	US-10-027-632-152891	Sequence 152891,
149	4.7	726	13	US-10-027-632-152891	Sequence 152891,
150	4.7	732	13	US-10-027-632-17859	Sequence 17859, A
C 151	4.7	808	13	US-10-027-632-149276	Sequence 149276,
C 152	4.7	887	13	US-10-027-632-156972	Sequence 156972,
C 153	4.7	887	13	US-10-027-632-156973	Sequence 156973,
C 154	4.7	887	13	US-10-027-632-156974	Sequence 156974,
155	4.7	887	13	US-10-027-632-156974	Sequence 156974,
156	4.7	887	13	US-10-027-632-156974	Sequence 156974,
C 157	4.7	920	13	US-10-027-632-120194	Sequence 120194,
C 158	4.7	920	13	US-10-027-632-120194	Sequence 120194,
C 159	4.7	920	13	US-10-027-632-120194	Sequence 120194,
C 160	4.7	920	13	US-10-027-632-120194	Sequence 120194,
C 161	4.7	920	13	US-10-027-632-120194	Sequence 120194,
C 162	4.7	920	13	US-10-027-632-120194	Sequence 120194,

236	46	4.6	145831	10	US-09-954-456-2116	Sequence 2116, App	C 309	44	4.4	9662	14	US-10-259-740-3	Sequence 3, Appli
237	46	4.6	145831	12	US-09-873-367C-546	Sequence 746, App	310	44	4.4	10949	11	US-09-764-891-9719	Sequence 9719, App
C 238	46	4.6	161280	14	US-10-144-649A-746	Sequence 746, App	311	44	4.4	10951	11	US-09-764-891-9718	Sequence 9718, App
C 239	46	4.6	1691139	14	US-10-067-514-1	Sequence 1, Appli	C 312	44	4.4	12138	12	US-10-311-455-1915	Sequence 1915, App
C 240	45	4.5	401	9	US-09-795-668-622	Sequence 622, App	C 313	44	4.4	12138	12	US-10-240-453-209	Sequence 209, App
C 241	45	4.5	401	9	US-09-795-668-623	Sequence 623, App	C 314	44	4.4	13821	10	US-09-764-877-2595	Sequence 2595, App
C 242	45	4.5	401	9	US-09-795-686-622	Sequence 622, App	C 315	44	4.4	14708	12	US-10-311-455-1915	Sequence 2218, App
C 243	45	4.5	401	9	US-09-795-686-623	Sequence 623, App	C 316	44	4.4	14708	12	US-10-240-453-224	Sequence 324, App
C 244	45	4.5	401	9	US-09-946-807-622	Sequence 622, App	C 317	44	4.4	14708	14	US-10-239-676-222	Sequence 222, App
C 245	45	4.5	401	10	US-09-946-807-623	Sequence 623, App	C 318	44	4.4	19920	10	US-09-764-877-2713	Sequence 2713, App
C 246	45	4.5	478	13	US-10-027-632-260864	Sequence 260864, App	C 319	44	4.4	21732	11	US-09-764-877-2717	Sequence 717, App
C 247	45	4.5	478	13	US-10-027-632-260865	Sequence 260865, App	C 320	44	4.4	32174	9	US-09-908-711-158	Sequence 158, App
C 248	45	4.5	553	13	US-10-027-632-260865	Sequence 260865, App	C 321	44	4.4	32174	9	US-09-764-860-1134	Sequence 1134, App
C 249	45	4.5	553	13	US-10-027-632-260865	Sequence 260865, App	C 322	44	4.4	32174	10	US-09-764-877-2645	Sequence 2645, App
C 250	45	4.5	611	13	US-10-027-632-195583	Sequence 195583, App	C 323	44	4.4	32174	10	US-09-860-670-2032	Sequence 233, App
C 251	45	4.5	931	13	US-10-027-632-120741	Sequence 120741, App	C 324	44	4.4	32174	10	US-09-860-670-2032	Sequence 90, Appli
C 252	45	4.5	931	13	US-10-027-632-120742	Sequence 120742, App	C 325	44	4.4	32174	11	US-09-764-894-80	Sequence 6480, App
C 253	45	4.5	931	13	US-10-027-632-120743	Sequence 120743, App	C 326	44	4.4	32174	11	US-09-764-891-10135	Sequence 10135, App
C 254	45	4.5	1197	13	US-10-027-632-118199	Sequence 118199, App	C 327	44	4.4	32174	11	US-09-764-891-10135	Sequence 10179, App
C 255	45	4.5	1197	13	US-10-027-632-101176	Sequence 101176, App	C 328	44	4.4	32174	11	US-10-091-548-30	Sequence 90, Appli
C 256	45	4.5	1265	13	US-10-027-632-101177	Sequence 101177, App	C 329	44	4.4	32174	14	US-10-074-095-1134	Sequence 1134, App
C 257	45	4.5	1391	14	US-10-153-668-351	Sequence 351, App	C 330	44	4.4	32187	14	US-10-102-632-109	Sequence 109, App
C 258	45	4.5	2232	11	US-09-764-891-5479	Sequence 5479, App	C 331	44	4.4	32195	9	US-09-764-865-2017	Sequence 2017, App
C 259	45	4.5	2232	11	US-09-764-891-10206	Sequence 10206, App	C 332	44	4.4	32195	14	US-10-091-504-2017	Sequence 2017, App
C 260	45	4.5	2232	14	US-10-205-428-1005	Sequence 1005, App	C 333	44	4.4	32195	14	US-09-764-865-2016	Sequence 2016, App
C 261	45	4.5	3159	13	US-10-027-632-115395	Sequence 115395, App	C 334	44	4.4	32195	14	US-10-091-504-2016	Sequence 5, Appli
C 262	45	4.5	9371	11	US-09-764-891-10134	Sequence 10134, App	C 335	44	4.4	32195	14	US-09-957-956-5	Sequence 956, App
C 263	45	4.5	10838	10	US-09-764-877-2698	Sequence 2698, App	C 336	44	4.4	46130	12	US-10-017-161-985	Sequence 985, App
C 264	45	4.5	14708	12	US-10-311-455-2217	Sequence 2217, App	C 337	44	4.4	55611	12	US-10-017-161-985	Sequence 783, App
C 265	45	4.5	14708	12	US-10-240-453-333	Sequence 323, App	C 338	44	4.4	59065	12	US-10-135-696-3	Sequence 3, Appli
C 266	45	4.5	14708	14	US-10-239-676-221	Sequence 221, App	C 339	44	4.4	59065	12	US-10-135-696-3	Sequence 3, Appli
C 267	45	4.5	14792	11	US-09-764-891-9780	Sequence 9780, App	C 340	44	4.4	64467	14	US-10-274-409-3	Sequence 3, Appli
C 268	45	4.5	16851	11	US-09-764-891-9781	Sequence 9781, App	C 341	44	4.4	162186	11	US-09-563-788A-36	Sequence 36, Appli
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C 271	45	4.5	2235	10	US-09-976-740-51	Sequence 51, Appli	C 344	44	4.4	263744	12	US-10-229-834A-6	Sequence 6, Appli
C 272	45	4.5	2235	13	US-10-023-529-51	Sequence 51, Appli	C 345	44	4.4	684973	12	US-09-263-959-1	Sequence 1, Appli
C 273	45	4.5	32199	10	US-09-764-855-210	Sequence 210, App	C 346	44	4.4	3673778	12	US-10-312-841-2	Sequence 2, Appli
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C 275	45	4.5	35425	12	US-10-017-161-2429	Sequence 2429, App	C 348	43	4.3	134	10	US-09-764-877-3129	Sequence 814, App
C 276	45	4.5	40433	10	US-09-880-107-3327	Sequence 3327, App	C 349	43	4.3	271	10	US-09-867-701-814	Sequence 814, App
C 277	45	4.5	43950	15	US-10-060-332-3	Sequence 3, Appli	C 350	43	4.3	303	9	US-09-764-887-640	Sequence 640, App
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C 279	45	4.5	107820	12	US-09-792-616-1	Sequence 1, Appli	C 352	43	4.3	305	11	US-09-803-719-50	Sequence 50, Appli
C 280	45	4.5	108317	12	US-10-017-161-2143	Sequence 2143, App	C 353	43	4.3	309	14	US-10-103-313-008	Sequence 608, App
C 281	44	4.4	54	10	US-09-263-959-519	Sequence 519, App	C 354	43	4.3	331	11	US-09-764-891-7724	Sequence 7724, App
C 282	44	4.4	461	13	US-10-027-632-30851	Sequence 30851, App	C 355	43	4.3	331	11	US-09-764-891-7725	Sequence 7725, App
C 283	44	4.4	548	13	US-10-027-632-259630	Sequence 259630, App	C 356	43	4.3	362	10	US-09-867-701-7428	Sequence 7428, App
C 284	44	4.4	550	13	US-10-027-632-277755	Sequence 277755, App	C 357	43	4.3	410	12	US-09-814-353-16157	Sequence 16157, App
C 285	44	4.4	559	12	US-09-814-353-16116	Sequence 16116, App	C 358	43	4.3	423	11	US-09-918-995-8365	Sequence 8365, App
C 286	44	4.4	559	12	US-09-814-353-16116	Sequence 16116, App	C 359	43	4.3	443	11	US-09-918-995-8365	Sequence 15691, App
C 287	44	4.4	624	10	US-09-263-959-367	Sequence 367, App	C 360	43	4.3	456	13	US-10-027-632-181995	Sequence 181995, App
C 288	44	4.4	659	13	US-10-027-632-24502	Sequence 24502, App	C 361	43	4.3	472	13	US-10-027-632-140253	Sequence 140253, App
C 289	44	4.4	659	13	US-10-027-632-141217	Sequence 141217, App	C 362	43	4.3	472	13	US-10-027-632-140254	Sequence 140254, App
C 290	44	4.4	659	13	US-10-027-632-141218	Sequence 141218, App	C 363	43	4.3	483	11	US-09-918-995-17632	Sequence 17632, App
C 291	44	4.4	781	13	US-10-027-632-137189	Sequence 137189, App	C 364	43	4.3	495	11	US-09-918-995-14607	Sequence 14607, App
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C 294	44	4.4	1088	13	US-10-027-632-252346	Sequence 252346, App	C 367	43	4.3	519	14	US-10-198-846-13266	Sequence 13266, App
C 295	44	4.4	1352	13	US-10-027-632-207750	Sequence 207750, App	C 368	43	4.3	543	10	US-09-764-847-1763	Sequence 1763, App
C 296	44	4.4	1352	13	US-10-027-632-123343	Sequence 123343, App	C 369	43	4.3	543	10	US-09-764-847-1766	Sequence 1766, App
C 297	44	4.4	1352	13	US-10-027-632-123344	Sequence 123344, App	C 370	43	4.3	543	10	US-09-764-847-1767	Sequence 1767, App
C 298	44	4.4	2108	13	US-10-027-632-99985	Sequence 99985, App	C 371	43	4.3	543	14	US-10-092-154-1763	Sequence 1763, App
C 299	44	4.4	2108	13	US-10-027-632-110231	Sequence 110231, App	C 372	43	4.3	543	14	US-10-092-154-1766	Sequence 1766, App
C 300	44	4.4	2583	13	US-10-027-632-111867	Sequence 111867, App	C 373	43	4.3	543	14	US-10-092-154-1767	Sequence 1767, App
C 301	44	4.4	2778	13	US-10-027-632-112214	Sequence 112214, App	C 374	43	4.3	558	11	US-09-918-995-28652	Sequence 28652, App
C 302	44	4.4	2778	13	US-10-027-632-112215	Sequence 112215, App	C 375	43	4.3	559	13	US-10-027-632-221853	Sequence 221853, App
C 303	44	4.4	4342	12	US-10-017-161-821	Sequence 821, App	C 376	43	4.3	559	13	US-10-027-632-221853	Sequence 221853, App
C 304	44	4.4	4342	12	US-10-017-161-821	Sequence 821, App	C 377	43	4.3	570	13	US-10-027-632-21956	Sequence 21956, App
C 305	44	4.4	5298	13	US-10-098-841-254	Sequence 841, App	C 378	43	4.3	570	13	US-10-027-632-45508	Sequence 45508, App
C 306	44	4.4	5954	12	US-10-240-448-100	Sequence 100, App	C 379	43	4.3	584	13	US-10-027-632-129238	Sequence 129238, App
C 307	44	4.4	6053	12	US-09-764-891-7250	Sequence 7250, App	C 380	43	4.3	585	13	US-10-027-632-8384	Sequence 8384, App
C 308	44	4.4	8326	11	US-09-764-891-7250	Sequence 7250, App	C 381	43	4.3	585	13	US-10-027-632-8385	Sequence 8385, App

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383	4.3	585	13	US-10-027-632-192686	Sequence 192686,	456	4.3	1721	13	US-10-027-632-25576	Sequence 25576,
384	4.3	585	13	US-10-027-632-199388	Sequence 199388, A	457	4.3	1918	10	US-09-816-669A-11	Sequence 11, Appl
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386	4.3	586	13	US-10-027-632-199600	Sequence 199600, A	459	4.3	2200	13	US-10-027-632-97902	Sequence 97902, A
387	4.3	591	13	US-10-027-632-61212	Sequence 61212, A	460	4.3	2200	13	US-10-027-632-111479	Sequence 111479, A
388	4.3	591	13	US-10-027-632-61213	Sequence 61213, A	461	4.3	2222	13	US-10-027-632-102164	Sequence 102164, A
389	4.3	593	13	US-10-027-632-222044	Sequence 222044, A	462	4.3	2222	13	US-10-027-632-102165	Sequence 102165, A
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394	4.3	604	14	US-10-198-846-6396	Sequence 6396, Ap	467	4.3	2538	11	US-09-964-278B-5	Sequence 5, Appl
395	4.3	605	10	US-09-880-107-3609	Sequence 3609, Ap	468	4.3	2556	12	US-09-814-353-21997	Sequence 21997, A
396	4.3	608	13	US-10-027-632-22459	Sequence 22459, A	469	4.3	2562	11	US-09-964-278B-7	Sequence 7, Appl
397	4.3	608	13	US-10-027-632-2291075	Sequence 2291075, A	470	4.3	2568	13	US-09-964-278B-9	Sequence 9, Appl
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399	4.3	610	13	US-10-027-632-257035	Sequence 257035, A	472	4.3	2811	13	US-10-027-632-111775	Sequence 111775, A
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416	4.3	659	13	US-10-027-632-204421	Sequence 204421, A	489	4.3	5194	11	US-10-165-099-5	Sequence 5, Appl
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421	4.3	708	13	US-10-027-632-129654	Sequence 129654, A	494	4.3	9439	10	US-09-764-877-2224	Sequence 2224, Ap
422	4.3	710	13	US-10-027-632-151884	Sequence 151884, A	495	4.3	9700	10	US-09-953-342-1	Sequence 1, Appl
423	4.3	714	13	US-10-027-632-158850	Sequence 158850, A	496	4.3	9887	13	US-10-000-638-7	Sequence 7, Appl
424	4.3	717	13	US-10-027-632-25840	Sequence 25840, A	497	4.3	12149	9	US-09-764-869-2258	Sequence 2258, Ap
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426	4.3	722	13	US-10-027-632-264117	Sequence 264117, A	499	4.3	12541	9	US-09-764-877-2184	Sequence 787, Appl
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428	4.3	738	13	US-10-027-632-165487	Sequence 165487, A	501	4.3	13700	14	US-10-220-310-2	Sequence 3, Appl
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430	4.3	801	13	US-10-027-632-148070	Sequence 148070, A	503	4.3	13862	11	US-09-764-891-10204	Sequence 10204, A
431	4.3	801	13	US-10-027-632-158822	Sequence 158822, A	504	4.3	14417	10	US-10-205-428-1003	Sequence 1003, Ap
432	4.3	818	13	US-10-027-632-158822	Sequence 158822, A	505	4.3	14417	10	US-09-860-670-251	Sequence 251, Appl
433	4.3	818	13	US-10-027-632-158823	Sequence 158823, A	506	4.3	14426	10	US-09-860-670-252	Sequence 252, Appl
434	4.3	839	13	US-10-027-632-173085	Sequence 173085, A	507	4.3	14448	10	US-09-860-670-250	Sequence 250, Appl
435	4.3	850	13	US-10-027-632-146493	Sequence 146493, A	508	4.3	14451	10	US-09-860-670-253	Sequence 253, Appl
436	4.3	898	13	US-10-027-632-129363	Sequence 129363, A	509	4.3	15016	10	US-09-880-107-3783	Sequence 3783, Ap
437	4.3	944	13	US-10-027-632-165226	Sequence 165226, A	510	4.3	16236	12	US-10-311-455-9955	Sequence 9955, Appl
438	4.3	955	13	US-10-027-632-101124	Sequence 101124, A	511	4.3	16319	9	US-09-764-848-53	Sequence 53, Appl
439	4.3	1034	11	US-09-764-891-9355	Sequence 9355, Ap	512	4.3	16319	12	US-10-222-020-53	Sequence 53, Appl
440	4.3	1034	14	US-10-205-428-801	Sequence 801, Appl	513	4.3	16319	14	US-10-116-016-53	Sequence 53, Appl
441	4.3	1038	13	US-10-027-632-266311	Sequence 266311, A	514	4.3	16511	9	US-09-764-863-2064	Sequence 2064, Ap
442	4.3	1069	13	US-10-027-632-101309	Sequence 101309, A	515	4.3	17601	11	US-10-091-504-2064	Sequence 2064, Ap
443	4.3	1069	13	US-10-027-632-101310	Sequence 101310, A	516	4.3	17601	11	US-09-764-891-7111	Sequence 7111, Ap
444	4.3	1069	13	US-10-027-632-101311	Sequence 101311, A	517	4.3	17996	10	US-09-764-877-2695	Sequence 2695, Ap
445	4.3	1163	13	US-10-027-632-110851	Sequence 110851, A	518	4.3	18934	12	US-10-311-455-1979	Sequence 1979, Ap
446	4.3	1163	13	US-10-027-632-118279	Sequence 118279, A	519	4.3	18946	9	US-09-764-863-1682	Sequence 1682, Ap
447	4.3	1224	13	US-10-027-632-118279	Sequence 118279, A	520	4.3	19646	9	US-09-764-863-1683	Sequence 1683, Ap
448	4.3	1224	13	US-10-027-632-118280	Sequence 118280, A	521	4.3	19646	14	US-10-091-504-1682	Sequence 1682, Ap
449	4.3	1372	13	US-10-027-632-250266	Sequence 250266, A	522	4.3	19646	14	US-10-091-504-1683	Sequence 1683, Ap
450	4.3	1455	13	US-10-027-632-264402	Sequence 264402, A	523	4.3	19969	11	US-10-190-593-3	Sequence 3, Appl
451	4.3	1556	13	US-10-027-632-264903	Sequence 264903, A	524	4.3	20190	11	US-09-996-015-3	Sequence 3, Appl
452	4.3	1721	13	US-10-027-632-255572	Sequence 255572, A	525	4.3	21334	12	US-10-338-656-3	Sequence 3, Appl
453	4.3	1721	13	US-10-027-632-255573	Sequence 255573, A	526	4.3	21334	12	US-10-109-854-3	Sequence 3, Appl
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C 529	43	4.3	24983	11	US-09-764-891-5950	Sequence 5950, Ap	602	42	4.2	505	14	US-09-764-860-881	Sequence 881, App
C 530	43	4.3	24983	11	US-09-764-891-8475	Sequence 8475, Ap	603	42	4.2	505	14	US-10-074-095-881	Sequence 881, App
C 531	43	4.3	27148	9	US-09-764-860-1046	Sequence 1046, Ap	604	42	4.2	507	11	US-09-918-995-35668	Sequence 35668, A
C 532	43	4.3	27148	14	US-10-074-095-1046	Sequence 1046, Ap	605	42	4.2	513	13	US-10-027-632-194609	Sequence 194609,
C 533	43	4.3	29695	10	US-09-752-820A-3	Sequence 3, Appl1	606	42	4.2	513	13	US-10-027-632-194610	Sequence 194610,
C 534	43	4.3	29695	10	US-09-813-319A-3	Sequence 3, Appl1	607	42	4.2	519	14	US-09-764-860-880	Sequence 880, App
C 535	43	4.3	30350	13	US-10-118-328-3	Sequence 812, App	608	42	4.2	519	14	US-10-074-095-880	Sequence 880, App
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C 537	43	4.3	31718	11	US-09-764-872-813	Sequence 813, App	610	42	4.2	526	13	US-10-027-632-50155	Sequence 50155, A
C 538	43	4.3	31718	11	US-09-764-891-9103	Sequence 9103, App	611	42	4.2	543	13	US-10-027-632-127050	Sequence 127050,
C 539	43	4.3	31718	11	US-09-764-891-9104	Sequence 9104, App	612	42	4.2	543	13	US-10-027-632-127051	Sequence 127051,
C 540	43	4.3	32134	11	US-09-764-891-6763	Sequence 6763, Ap	613	42	4.2	553	13	US-10-027-632-51486	Sequence 51486, A
C 541	43	4.3	32134	11	US-09-764-877-3171	Sequence 3171, Ap	614	42	4.2	553	13	US-10-027-632-51486	Sequence 51486, A
C 542	43	4.3	32193	10	US-09-764-877-2623	Sequence 2623, Ap	615	42	4.2	553	13	US-10-027-632-513768	Sequence 513768,
C 543	43	4.3	32193	10	US-09-764-877-2623	Sequence 2623, Ap	616	42	4.2	553	13	US-10-027-632-121352	Sequence 121352,
C 544	43	4.3	33795	10	US-09-880-107-2184	Sequence 2184, Ap	617	42	4.2	554	12	US-09-814-353-2738	Sequence 2738, Ap
C 545	43	4.3	34641	10	US-09-954-456-1110	Sequence 1110, Ap	618	42	4.2	554	12	US-09-814-353-2738	Sequence 2738, Ap
C 546	43	4.3	34641	10	US-09-954-456-1110	Sequence 1110, Ap	619	42	4.2	567	13	US-10-027-632-299705	Sequence 299705,
C 547	43	4.3	35465	14	US-10-161-572-6	Sequence 1787, Ap	620	42	4.2	567	13	US-10-027-632-299714	Sequence 299714,
C 548	43	4.3	36991	14	US-10-161-572-8	Sequence 8, Appl1	621	42	4.2	573	13	US-10-027-632-286915	Sequence 286915,
C 549	43	4.3	41907	9	US-09-967-013-5	Sequence 5, Appl1	622	42	4.2	585	13	US-10-027-632-190487	Sequence 190487,
C 550	43	4.3	46718	10	US-09-816-093-3	Sequence 3, Appl1	623	42	4.2	585	13	US-10-027-632-204583	Sequence 204583,
C 551	43	4.3	46718	14	US-10-274-873-3	Sequence 3, Appl1	624	42	4.2	585	13	US-10-027-632-204584	Sequence 204584,
C 552	43	4.3	50000	11	US-09-902-214-6	Sequence 6, Appl1	625	42	4.2	594	13	US-10-027-632-277066	Sequence 277066,
C 553	43	4.3	52216	9	US-09-747-810-1	Sequence 1, Appl1	626	42	4.2	594	13	US-10-027-632-277067	Sequence 277067,
C 554	43	4.3	53542	9	US-09-801-574-61	Sequence 61, Appl1	627	42	4.2	598	13	US-10-027-632-107196	Sequence 107196,
C 555	43	4.3	62944	10	US-09-954-456-2257	Sequence 2257, Ap	628	42	4.2	604	13	US-10-027-632-111118	Sequence 111118,
C 556	43	4.3	63000	10	US-09-780-172-18	Sequence 18, Appl1	629	42	4.2	613	13	US-10-027-632-272626	Sequence 272626,
C 557	43	4.3	65464	10	US-09-859-888-3	Sequence 3, Appl1	630	42	4.2	613	13	US-10-027-632-572627	Sequence 572627,
C 558	43	4.3	73308	10	US-09-954-456-2276	Sequence 2276, Ap	631	42	4.2	617	13	US-10-027-632-240596	Sequence 240596,
C 559	43	4.3	74962	14	US-10-274-974-3	Sequence 3, Appl1	632	42	4.2	617	13	US-10-027-632-240597	Sequence 240597,
C 560	43	4.3	88624	12	US-10-292-081A-1	Sequence 10, Appl1	633	42	4.2	617	13	US-10-027-632-240598	Sequence 240598,
C 561	43	4.3	91000	14	US-10-002-491-10	Sequence 10, Appl1	634	42	4.2	617	13	US-10-027-632-240599	Sequence 240599,
C 562	43	4.3	98885	10	US-09-770-689A-3	Sequence 3, Appl1	635	42	4.2	621	13	US-10-027-632-25087	Sequence 25087, A
C 563	43	4.3	119596	14	US-10-070-336-3	Sequence 3, Appl1	636	42	4.2	621	13	US-10-027-632-269259	Sequence 269259,
C 564	43	4.3	128779	15	US-10-081-327-38	Sequence 38, Appl1	637	42	4.2	624	13	US-10-027-632-269260	Sequence 269260,
C 565	43	4.3	132762	10	US-09-954-556-17	Sequence 17, Appl1	638	42	4.2	624	13	US-10-027-632-121491	Sequence 121491,
C 566	43	4.3	143306	10	US-09-729-920-3	Sequence 3, Appl1	639	42	4.2	627	13	US-10-027-632-128112	Sequence 128112,
C 567	43	4.3	145831	10	US-09-969-708-79	Sequence 79, Appl1	640	42	4.2	630	13	US-10-027-632-127988	Sequence 127988,
C 568	43	4.3	145831	10	US-09-954-456-2116	Sequence 2116, Ap	641	42	4.2	630	13	US-10-027-632-137382	Sequence 137382,
C 569	43	4.3	145831	12	US-09-873-367C-446	Sequence 446, App	642	42	4.2	631	13	US-10-027-632-185045	Sequence 185045,
C 570	43	4.3	149480	12	US-09-873-367C-284	Sequence 284, App	643	42	4.2	632	13	US-10-027-632-224489	Sequence 224489,
C 571	43	4.3	149480	12	US-09-873-367C-284	Sequence 284, App	644	42	4.2	637	13	US-10-027-632-188400	Sequence 188400,
C 572	43	4.3	149480	12	US-09-873-367C-285	Sequence 285, App	645	42	4.2	637	13	US-10-027-632-264247	Sequence 264247,
C 573	43	4.3	149480	12	US-09-873-367C-285	Sequence 285, App	646	42	4.2	645	13	US-10-027-632-265593	Sequence 265593,
C 574	43	4.3	170834	9	US-09-835-832-7	Sequence 7, Appl1	647	42	4.2	657	13	US-10-027-632-280368	Sequence 280368,
C 575	43	4.3	170834	12	US-10-308-485-7	Sequence 7, Appl1	648	42	4.2	658	14	US-10-027-632-280368	Sequence 280368,
C 576	43	4.3	186957	14	US-10-185-770-3	Sequence 3, Appl1	649	42	4.2	675	14	US-10-198-846-886	Sequence 886, App
C 577	43	4.3	198285	10	US-09-880-107-3814	Sequence 3814, Ap	650	42	4.2	681	13	US-10-027-632-235856	Sequence 235856,
C 578	43	4.3	203654	10	US-09-820-905-3	Sequence 3, Appl1	651	42	4.2	685	13	US-10-027-632-152872	Sequence 152872,
C 579	43	4.3	250000	12	US-10-225-810-26	Sequence 26, Appl1	652	42	4.2	699	13	US-10-027-632-25590	Sequence 25590, A
C 580	43	4.3	326014	9	US-09-731-231A-3	Sequence 3, Appl1	653	42	4.2	710	13	US-10-027-632-23580	Sequence 23580, A
C 581	43	4.3	2940917	13	US-10-027-632-174763	Sequence 174763,	654	42	4.2	715	13	US-10-027-632-12215	Sequence 12215, A
C 582	42	4.2	231	11	US-09-764-891-9314	Sequence 9314, Ap	655	42	4.2	731	13	US-10-027-632-286262	Sequence 286262,
C 583	42	4.2	353	11	US-09-867-701-750	Sequence 750, App	656	42	4.2	731	13	US-10-027-632-27029	Sequence 27029, A
C 584	42	4.2	359	10	US-09-867-701-750	Sequence 750, App	657	42	4.2	731	13	US-10-027-632-27030	Sequence 27030, A
C 585	42	4.2	360	12	US-09-814-353-15455	Sequence 15455, A	658	42	4.2	732	13	US-10-027-632-157770	Sequence 157770,
C 586	42	4.2	378	13	US-10-027-632-73590	Sequence 73590, A	659	42	4.2	737	13	US-10-027-632-147604	Sequence 147604,
C 587	42	4.2	392	10	US-09-867-701-7329	Sequence 7329, App	660	42	4.2	746	13	US-10-027-632-17823	Sequence 17823, A
C 588	42	4.2	396	10	US-09-880-107-442	Sequence 442, App	661	42	4.2	746	13	US-10-027-632-124609	Sequence 124609,
C 589	42	4.2	408	10	US-09-867-701-592	Sequence 592, App	662	42	4.2	746	13	US-10-027-632-150470	Sequence 150470,
C 590	42	4.2	410	10	US-09-764-877-572	Sequence 572, App	663	42	4.2	746	13	US-10-027-632-150471	Sequence 150471,
C 591	42	4.2	412	10	US-09-867-701-8062	Sequence 8062, App	664	42	4.2	746	13	US-10-027-632-150472	Sequence 150472,
C 592	42	4.2	441	11	US-09-918-995-12197	Sequence 12197, A	665	42	4.2	754	13	US-10-027-632-151633	Sequence 151633,
C 593	42	4.2	447	11	US-09-918-995-10736	Sequence 10736, A	666	42	4.2	754	13	US-10-027-632-151634	Sequence 151634,
C 594	42	4.2	463	11	US-09-918-995-5918	Sequence 5918, App	667	42	4.2	754	13	US-10-027-632-151635	Sequence 151635,
C 595	42	4.2	477	13	US-10-027-632-125714	Sequence 125714, A	668	42	4.2	754	13	US-10-027-632-151636	Sequence 151636,
C 596	42	4.2	482	10	US-09-867-701-10543	Sequence 10543, A	669	42	4.2	762	13	US-10-027-632-168874	Sequence 168874,
C 597	42	4.2	488	10	US-09-878-178-187	Sequence 187, App	670	42	4.2	772	13	US-10-027-632-158054	Sequence 158054,
C 598	42	4.2	488	13	US-10-046-935-187	Sequence 187, App	671	42	4.2	805	13	US-10-027-632-127408	Sequence 127408,
C 599	42	4.2	488	14	US-10-146-502-187	Sequence 187, App	672	42	4.2	818	13	US-10-027-632-264819	Sequence 264819,
C 600	42	4.2	490	11	US-09-918-995-9891	Sequence 9891, App	673	42	4.2	822	13	US-10-027-632-166593	Sequence 166593,

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C 676	42	4.2	845	13	US-10-027-632-229371	Sequence 229371, A	C 749	42	4.2	5780	11	US-09-764-891-8702	Sequence 8702, Ap
C 677	42	4.2	845	13	US-10-027-632-229372	Sequence 229372, A	C 750	42	4.2	5935	9	US-09-754-949-8	Sequence 8, Appl1
C 678	42	4.2	849	13	US-10-027-632-141905	Sequence 141905,	C 751	42	4.2	6388	9	US-09-764-878-272	Sequence 272, App
C 679	42	4.2	849	13	US-10-027-632-141906	Sequence 141906,	C 752	42	4.2	6388	9	US-09-764-878-273	Sequence 273, App
C 680	42	4.2	849	13	US-10-027-632-141907	Sequence 141907,	C 753	42	4.2	6388	9	US-09-764-860-951	Sequence 951, App
C 681	42	4.2	849	13	US-10-027-632-141908	Sequence 141908,	C 754	42	4.2	6388	9	US-09-764-860-952	Sequence 952, App
C 682	42	4.2	855	13	US-10-027-632-161043	Sequence 161043,	C 755	42	4.2	6388	14	US-10-079-854-272	Sequence 272, App
C 683	42	4.2	855	13	US-10-027-632-161044	Sequence 161044,	C 756	42	4.2	6388	14	US-10-079-854-273	Sequence 273, App
C 684	42	4.2	855	13	US-10-027-632-161045	Sequence 161045,	C 757	42	4.2	6388	14	US-10-079-854-274	Sequence 274, App
C 685	42	4.2	855	13	US-10-027-632-161046	Sequence 161046,	C 758	42	4.2	6388	14	US-10-079-854-275	Sequence 275, App
C 686	42	4.2	855	13	US-10-027-632-161047	Sequence 161047,	C 759	42	4.2	6388	14	US-10-079-854-276	Sequence 276, App
C 687	42	4.2	891	13	US-10-027-632-120360	Sequence 120360,	C 760	42	4.2	8854	11	US-09-764-891-5494	Sequence 5494, Ap
C 688	42	4.2	891	13	US-10-027-632-120361	Sequence 120361,	C 761	42	4.2	8854	11	US-09-764-891-5495	Sequence 5495, Ap
C 689	42	4.2	891	13	US-10-027-632-120362	Sequence 120362,	C 762	42	4.2	9914	14	US-10-092-154-1558	Sequence 1558, Ap
C 690	42	4.2	943	13	US-10-027-632-34185	Sequence 34185, A	C 763	42	4.2	9914	14	US-10-092-154-1559	Sequence 1559, Ap
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C 692	42	4.2	970	13	US-10-027-632-325084	Sequence 325084,	C 765	42	4.2	10780	10	US-09-764-891-9421	Sequence 9421, Ap
C 693	42	4.2	970	13	US-10-027-632-325104	Sequence 325104,	C 766	42	4.2	11076	11	US-09-764-891-9421	Sequence 9421, Ap
C 694	42	4.2	970	13	US-10-027-632-325133	Sequence 325133,	C 767	42	4.2	11076	11	US-09-764-891-9421	Sequence 9421, Ap
C 695	42	4.2	970	13	US-10-027-632-325137	Sequence 325137,	C 768	42	4.2	11553	10	US-09-764-891-9421	Sequence 9421, Ap
C 696	42	4.2	1185	13	US-10-027-632-124017	Sequence 124017,	C 769	42	4.2	11553	10	US-09-764-891-9421	Sequence 9421, Ap
C 697	42	4.2	1185	13	US-10-027-632-124018	Sequence 124018,	C 770	42	4.2	11553	14	US-10-092-145-1155	Sequence 1155, Ap
C 698	42	4.2	1185	13	US-10-027-632-124019	Sequence 124019,	C 771	42	4.2	12274	14	US-09-764-861-65	Sequence 65, Appl
C 699	42	4.2	1191	13	US-10-027-632-101274	Sequence 101274,	C 772	42	4.2	12274	14	US-10-115-928-65	Sequence 65, Appl
C 700	42	4.2	1191	13	US-10-027-632-204582	Sequence 204582,	C 773	42	4.2	12712	10	US-09-764-866-1425	Sequence 1425, Ap
C 701	42	4.2	1205	13	US-10-027-632-253529	Sequence 253529,	C 774	42	4.2	13046	9	US-09-764-870-595	Sequence 595, App
C 702	42	4.2	1222	13	US-10-027-632-253530	Sequence 253530,	C 775	42	4.2	13046	11	US-09-764-891-5538	Sequence 5538, Ap
C 703	42	4.2	1232	13	US-10-027-632-253531	Sequence 253531,	C 776	42	4.2	13046	11	US-10-125-540-595	Sequence 595, App
C 704	42	4.2	1232	13	US-10-027-632-253532	Sequence 253532,	C 777	42	4.2	14466	10	US-09-860-670-249	Sequence 249, App
C 705	42	4.2	1447	10	US-09-764-864-177	Sequence 177, App	C 778	42	4.2	14466	10	US-09-764-866-1504	Sequence 1504, App
C 706	42	4.2	1459	9	US-09-796-858-113	Sequence 113, Appl	C 779	42	4.2	14987	9	US-09-764-866-1766	Sequence 1766, Ap
C 707	42	4.2	1562	13	US-10-027-632-261878	Sequence 261878,	C 780	42	4.2	15275	9	US-09-764-869-1475	Sequence 1475, Ap
C 708	42	4.2	1812	13	US-10-027-632-100264	Sequence 100264,	C 781	42	4.2	15275	14	US-10-091-504-1475	Sequence 1475, Ap
C 709	42	4.2	1815	13	US-10-027-632-97502	Sequence 97502, A	C 782	42	4.2	16236	12	US-10-311-453-996	Sequence 996, App
C 710	42	4.2	1815	13	US-10-027-632-97503	Sequence 97503, A	C 783	42	4.2	16236	12	US-09-764-866-1483	Sequence 1483, Ap
C 711	42	4.2	1815	13	US-10-027-632-99377	Sequence 99377, A	C 784	42	4.2	16552	10	US-09-764-855-321	Sequence 321, App
C 712	42	4.2	1835	13	US-10-027-632-255911	Sequence 255911,	C 785	42	4.2	16552	10	US-09-764-855-332	Sequence 332, App
C 713	42	4.2	1910	13	US-10-027-632-97833	Sequence 97833, A	C 786	42	4.2	16552	14	US-10-072-344-331	Sequence 331, App
C 714	42	4.2	1910	13	US-10-027-632-97834	Sequence 97834, A	C 787	42	4.2	16552	14	US-10-072-344-332	Sequence 332, App
C 715	42	4.2	2051	12	US-09-814-353-19556	Sequence 19556, A	C 788	42	4.2	16877	10	US-09-764-877-3349	Sequence 3349, Ap
C 716	42	4.2	2088	13	US-10-027-632-98072	Sequence 98072, A	C 789	42	4.2	17491	12	US-10-017-161-1955	Sequence 1955, Ap
C 717	42	4.2	2263	13	US-10-027-632-266262	Sequence 266262,	C 790	42	4.2	17538	9	US-09-893-348-9	Sequence 9, Appl1
C 718	42	4.2	2263	13	US-10-027-632-266263	Sequence 266263,	C 791	42	4.2	17538	11	US-09-218-277-9	Sequence 9, Appl1
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C 720	42	4.2	2319	12	US-10-205-219-33	Sequence 33, Appl	C 793	42	4.2	20444	11	US-09-764-891-9422	Sequence 9422, Ap
C 721	42	4.2	2320	13	US-10-027-632-101636	Sequence 101636,	C 794	42	4.2	21311	11	US-09-764-891-9418	Sequence 9418, Ap
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C 723	42	4.2	2355	14	US-10-205-428-835	Sequence 835, App	C 796	42	4.2	23539	12	US-10-017-161-1909	Sequence 1909, Ap
C 724	42	4.2	2487	14	US-10-082-830-67	Sequence 67, Appl	C 797	42	4.2	23539	10	US-09-764-877-2455	Sequence 2455, Ap
C 725	42	4.2	2907	10	US-09-954-456-318	Sequence 318, App	C 798	42	4.2	25309	12	US-10-365-564-3	Sequence 3, Appl1
C 726	42	4.2	2907	10	US-09-954-456-823	Sequence 823, App	C 799	42	4.2	25309	12	US-10-291-737-3	Sequence 3, Appl1
C 727	42	4.2	2907	10	US-09-954-456-1266	Sequence 1266, App	C 800	42	4.2	26393	14	US-10-017-161-1553	Sequence 1553, Ap
C 728	42	4.2	2907	10	US-09-880-107-2318	Sequence 2318, Ap	C 801	42	4.2	26657	9	US-09-810-6734-3	Sequence 3, Appl1
C 729	42	4.2	2968	13	US-10-027-632-114016	Sequence 114016,	C 802	42	4.2	26928	10	US-09-880-107-2378	Sequence 2378, Ap
C 730	42	4.2	2968	13	US-10-027-632-114017	Sequence 114017,	C 803	42	4.2	26928	14	US-10-020-141-7	Sequence 7, Appl1
C 731	42	4.2	2968	13	US-10-027-632-114018	Sequence 114018,	C 804	42	4.2	26928	14	US-10-020-141-7	Sequence 7, Appl1
C 732	42	4.2	3096	13	US-10-027-632-112161	Sequence 112161,	C 805	42	4.2	26928	14	US-10-017-631-1	Sequence 1, Appl1
C 733	42	4.2	3096	13	US-10-027-632-112162	Sequence 112162,	C 806	42	4.2	28630	14	US-10-010-802-1	Sequence 1, Appl1
C 734	42	4.2	3096	13	US-10-027-632-111958	Sequence 111958,	C 807	42	4.2	30781	11	US-09-764-891-6669	Sequence 6669, Ap
C 735	42	4.2	3096	13	US-10-027-632-111959	Sequence 111959,	C 808	42	4.2	30781	11	US-10-092-908-37	Sequence 37, Appl
C 736	42	4.2	3139	13	US-10-027-632-115955	Sequence 115955,	C 809	42	4.2	32185	14	US-09-764-891-6906	Sequence 6906, Ap
C 737	42	4.2	3193	13	US-10-027-632-112481	Sequence 112481,	C 810	42	4.2	32152	10	US-09-764-885-338	Sequence 338, App
C 738	42	4.2	3370	9	US-09-764-869-1976	Sequence 1976, Ap	C 811	42	4.2	32152	11	US-09-764-885-518	Sequence 518, App
C 739	42	4.2	3370	9	US-09-764-869-1977	Sequence 1977, Ap	C 812	42	4.2	32152	14	US-10-072-344-338	Sequence 338, App
C 740	42	4.2	3370	14	US-10-091-504-1976	Sequence 1976, Ap	C 813	42	4.2	32184	11	US-09-764-891-8538	Sequence 8538, Ap
C 741	42	4.2	3370	14	US-10-091-504-1977	Sequence 1977, Ap	C 814	42	4.2	32195	10	US-09-764-886-1508	Sequence 1508, Ap
C 742	42	4.2	3441	9	US-10-118-783-17	Sequence 17, Appl	C 815	42	4.2	32195	11	US-09-764-886-1512	Sequence 1512, Ap
C 743	42	4.2	3451	10	US-09-811-286-1	Sequence 1, Appl1	C 816	42	4.2	32195	11	US-09-764-891-6668	Sequence 6668, Ap
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ALIGNMENTS

REFERENCE/DOCKET NUMBER: 16026.9180
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (608) 257-3501
 TELEFAX: (608) 257-2275
 INFORMATION FOR SEQ ID NO: 32
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1000 bp
 TYPE: Nucleic Acid
 STRANDEDNESS: Double
 TOPOLOGY: Circular
 MOLECULE TYPE: Genomic DNA
 HYPOTHEICAL: no
 IMMEDIATE SOURCE:
 CLONE: S132
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: 22
 SEQUENCE DESCRIPTION: SEQ ID NO: 32

Query Match 100.0%; Score 1000; DB 9; Length 1000;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1000; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

US-09-784-423-32

RESULT 1
 US-09-784-423-32
 Sequence 32, Application US/09784423
 Patent No. US20020012924A1
 GENERAL INFORMATION:
 APPLICANT: Schumm, James W.
 TITLE OF INVENTION: MATERIALS AND METHODS FOR IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM REPEAT DNA MARKERS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Promega Corporation
 STREET: 2800 Woods Hollow Road
 CITY: Madison
 STATE: Wisconsin
 COUNTRY: U.S.A.
 ZIP: 53711-5399
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb
 COMPUTER: IBM compatible PC
 OPERATING SYSTEM: Windows 95
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 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/784,423
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 NAME: Grady J. Frenchick
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 601 AGTAATAGCTATCAATATCCGACCCCTACGACTGTGCTGAATTTAGTTCTTTTGTG 660
 661 ACCCCCATTAAGCTTAAGGAGAAATTCACGTAATCTCTGTAATTTGCTGTTCT 720
 661 ACCCCCATTAAGCTTAAGGAGAAATTCACGTAATCTCTGTAATTTGCTGTTCT 720
 721 GGACATAGTGGGTCTCAGTGAACATGTGATGATGACGAATGCAAGAAATCTCC 780
 721 GGACATAGTGGGTCTCAGTGAACATGTGATGATGACGAATGCAAGAAATCTCC 780

Db	721	GGCAGCATGATTGGGTCTCAGTAGAAACATGTAAGTAAGCAAAATGCAAGAAATCTCC	780
Qy	781	AGGCCATCTGGGAGGCCCTCCAGGGGGGGTGAATTTGGGAAACTCATAGTCTGTCTCAAT	840
Db	781	AGGCGCATCTGGAGAGCCCTCCAGGGGGGGTGAATTTGGGAAACTCATAGTCTGTCTCAAT	840
Qy	841	GGGCCACTGAAGATGAGAGTTCTTGGGTCCCACTCCGCAACCCCATCTCTGACTCAC	900
Db	841	GGGCCACTGAAGATGAGAGTTCTTGGGTCCCACTCCGCAACCCCATCTCTGACTCAC	900
Qy	901	TGCTGAAAAATTAATTAATTAATTAATTAACCTTATCCGAGGCTCTCCACATGCTTGC	960
Db	901	TGCTGAAAAATTAATTAATTAATTAATTAATTAACCTTATCCGAGGCTCTCCACATGCTTGC	960
Qy	961	CAGGACTGCAAGAGGCCGACAGAAATGATGACCGGCGTGC	1000
Db	961	CAGGACTGCAAGAGGCCGACAGAAATGATGACCGGCGTGC	1000

```

RESULT 2
US-09-764-891-10051/c
: Sequence 10051, Application US/09764891
: Publication No. US20030077808A1
GENERAL INFORMATION:
: APPLICANT: Rosen et al.
: TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
: FILE REFERENCE: PC006
: CURRENT APPLICATION NUMBER: US/09/764, 891
: PRIORITY FILING DATE: 2001-01-17
: Prior application data removed - consult PALM or file wrapper
: NUMBER OF SEQ ID NOS: 10231
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO. 10051
: LENGTH: 11627
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-764-891-10051

```

```
Query Match      5.8%; Score 58; DB 11; Length 11627;
Best Local Similarity 100.0%; Pred. No. 3.6e-19;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 340 TACTTAAATAATACCAAGTGTGGTGGACACGCTGTAGTCCCACTACT 397

D5 10819 TACTTAAATAATACCAAGTGTGGTGGACACGCTGTAGTCCCACTACT 10762

RESULT 3
US-10-027-632-134421/c
; Sequence 134421, Application US/10027632

```

; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; PRIORITY REFERENCE: 100000000

```

; CURRENT APPLICATION NUMBER: US/10/027,632
 ;
 ; CURRENT FILING DATE: 2002-04-30
 ;
 ; PRIOR APPLICATION NUMBER: US 60/218,006
 ;
 ; PRIOR FILING DATE: 2000-07-12

;
 ; PRIOR APPLICATION NUMBER: US 60/198,676
 ;
 ; PRIOR FILING DATE: 2000-04-20
 ;
 ; PRIOR APPLICATION NUMBER: US 60/193,483
 ;
 ; PRIOR FILING DATE: 2000-03-29

PRIOR FILING DATE: 1999-11-23

;
 ; PRIORITY FILING DATE: 1999-09-28
 ;
 ; PRIORITY APPLICATION NUMBER: US 60/156,558
 ;
 ; PRIORITY FILING DATE: 1999-09-28
 ;
 ; PRIORITY APPLICATION NUMBER: US 60/146,002
 ;
 ; PRIORITY FILING DATE: 1999-08-09

```

; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0

```

```

; SEQ ID NO 134421
; LENGTH: 677
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-134421

```

```

Query Match      5.5%; score 55; DB 13; length 611;
Best Local Similarity 100.0%; Pred. No. 1,1e-17;
Matches 55; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 343 TAAATAATACAAAATTAAGCAGGIGTGGTGCACACGCCCTGTAGTCCCAAGTACT 397

Db 341 TAAAAATACAAAATTAAGCAGGIGTGGTGCACACGCCCTGTAGTCCCAAGTACT 287

RESULT 4
US-10-027-632-239196/c
; Sequence 239196, Application US/100276322

```

; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILING DATE: 10/09/2007

```

;
; CURRENT APPLICATION NUMBER: US/10/027,632
;
; CURRENT FILING DATE: 2002-04-30
;
; PRIOR APPLICATION NUMBER: US 60/218,006
;
; PRIOR FILING DATE: 2000-02-13

;
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-28

; PRIOR APPLICATION NUMBER: US 60/185,218
 ; PRIOR FILING DATE: 2000-02-24
 ; PRIOR APPLICATION NUMBER: US 60/167,363
 ; PRIOR FILING DATE: 1999-11-23

;
 ; PRIOR APPLICATION NUMBER: US 60/156,358
 ;
 ; PRIOR FILING DATE: 1999-09-28
 ;
 ; PRIOR APPLICATION NUMBER: US 60/146,002
 ;
 ; PRIOR FILING DATE: 1999-08-09

```

;
; NUMBER OF SEQ ID NOS: 239120
;
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 239196
;
; LENGTH: 650

```

```

; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature

```

OTHER INFORMATION: n = A, T, C or G
US-10-027-632-239196

```

Query Match      5.3%; Score 53; DB 13; Length 650;
Best Local Similarity 100.0%; Pred. No. 1,2e-16;
Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy 506 CAGAAATATAATATAATATAATATAATATAATATAAT 558
 Db 254 CAGAAATATAATATAATATAATATAATATAATATAAT 202

RESULT 5
US-10-027-632-278501/C
Sequence 278501 Application INS/10027632

```

; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome

```

FILE REFERENCE: 100827.125
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006

; PRIOR APPLICATION NUMBER: US 60/218,006
 ;
 ; PRIOR FILING DATE: 2000-07-12
 ;
 ; PRIOR APPLICATION NUMBER: US 60/198,676

```

; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 278501
; LENGTH: 431
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-278501

Query Match
Best Local Similarity 100.0%; Score 52; DB 13; Length 431;
Pred. No. 3.7e-16; Mismatches 0; Indels 0; Gaps 0;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 336 TCTCTACTAAATAACAAATTTAGCCAGGTGTGTGGCACACGCTGTAGT 387
Db 376 TCTCTACTAAATAACAAATTTAGCCAGGTGTGTGGCACACGCTGTAGT 325
```

```

RESULT 6
US-10-027-632-266549/c
; Sequence 266549, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 266549
; LENGTH: 432
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-266549
```

```

Query Match
Best Local Similarity 100.0%; Score 52; DB 13; Length 432;
Pred. No. 3.7e-16; Mismatches 0; Indels 0; Gaps 0;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 336 TCTCTACTAAATAACAAATTTAGCCAGGTGTGTGGCACACGCTGTAGT 387
Db 376 TCTCTACTAAATAACAAATTTAGCCAGGTGTGTGGCACACGCTGTAGT 325
```

```

RESULT 7
US-10-027-632-127789/c
; Sequence 127789, Application US/10027632
; GENERAL INFORMATION:
```

```

; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 127789
; LENGTH: 797
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-127789

Query Match
Best Local Similarity 100.0%; Score 52; DB 13; Length 797;
Pred. No. 3.8e-16; Mismatches 0; Indels 0; Gaps 0;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 334 CGTCTACTAAATAACAAATTTAGCCAGGTGTGTGGCACACGCTGTAGT 385
Db 231 CGTCTACTAAATAACAAATTTAGCCAGGTGTGTGGCACACGCTGTAGT 180
```

```

RESULT 8
US-09-764-877-3378/c
; Sequence 3378, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; PRIOR APPLICATION DATA REMOVED - REFER TO PALM OR FILE WRAPPER
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3378
; LENGTH: 2701
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-877-3378
```

```

Query Match
Best Local Similarity 100.0%; Score 52; DB 10; Length 2701;
Pred. No. 4e-16; Mismatches 0; Indels 0; Gaps 0;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 509 AAAATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATTC 560
Db 942 AAAATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATTC 891
```

```

RESULT 9
US-09-795-668-1/c
; Sequence 1, Application US/09795668
; Patent No. US20020045577A1
; GENERAL INFORMATION:
; APPLICANT: Stefansson, Hreinn
; APPLICANT: Steinhorsdottir, Valgerdur
; APPLICANT: Gulcher, Jeffrey R.
```

```

; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE
; FILE REFERENCE: 2345.2004-001
; CURRENT APPLICATION NUMBER: US/09/795,668
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 09/515,716
; PRIOR FILING DATE: 2000-02-28
; NUMBER OF SEQ ID NOS: 1531
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1503841
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: r=g or a
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: y=t/u or c
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: m=a or c
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: s=g or c
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: w=a or t/u
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: h=a or g or t/u
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: b=g or c or t/u
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: d=a or g or t/u
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: v=a or g or c
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: n=a or g or c or t/u
; US-09-795-668-1

Query Match      5.2%; Score 52; DB 9; Length 1503841;
Best Local Similarity 100.0%; Pred. No. 5.3e-16;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      509 AAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 560
Db      1366667 AAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 1366616

RESULT 10
US-09-795-686-1/c
; Sequence 1, Application US/09795668
; Patent No. US20020094954A1
; GENERAL INFORMATION:
; APPLICANT: Stefansson, Hreinn
; APPLICANT: Steinhorsdottir, Valgerdur
; APPLICANT: Gulcher, Jeffrey R.
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE
; FILE REFERENCE: 2345.2005-001
; CURRENT APPLICATION NUMBER: US/09/795,686
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 09/515,715
; PRIOR FILING DATE: 2000-02-28
; NUMBER OF SEQ ID NOS: 1531
; SOFTWARE: FastSeq for Windows Version 4.0

```

```

; SEQ ID NO 1
; LENGTH: 1503841
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: r=g or a
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: y=t/u or c
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: m=a or c
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: s=g or c
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: w=a or t/u
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: h=a or g or t/u
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: b=g or c or t/u
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: d=a or g or t/u
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: v=a or g or c
; NAME/KEY: misc_feature
; LOCATION: (1)...(1531)
; OTHER INFORMATION: n=a or g or c or t/u
; US-09-795-686-1

Query Match      5.2%; Score 52; DB 9; Length 1503841;
Best Local Similarity 100.0%; Pred. No. 5.3e-16;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      509 AAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 560
Db      1366667 AAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 1366616

RESULT 11
US-09-946-807-1/c
; Sequence 1, Application US/09946807
; Patent No. US2002016514A1
; GENERAL INFORMATION:
; APPLICANT: Stefansson, Hreinn
; APPLICANT: Steinhorsdottir, Valgerdur
; APPLICANT: Gulcher, Jeffrey R.
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE
; FILE REFERENCE: 2345.2004-001
; CURRENT APPLICATION NUMBER: US/09/946,807
; CURRENT FILING DATE: 2001-09-05
; PRIOR APPLICATION NUMBER: US/09/795,668
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 09/515,716
; PRIOR FILING DATE: 2000-02-28
; NUMBER OF SEQ ID NOS: 1531
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1503841
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature

```

```
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: r=g or a
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: y=c/u or c
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: m=a or c
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: k=g or t/u
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: b=g or c
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: w=a or t/u
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: b=g or c or t/u
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: d=a or g or t/u
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: h=a or c or t/u
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: v=a or g or c
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(1531)
/ OTHER INFORMATION: n=a or g or c or t/u
/ US-09-946-807-1

Query Match
Best Local Similarity 100.0%; Score 52; DB 10; Length 1503841;
Pred. No. 5.3e-16; Mismatches 0; Indels 0; Gaps 0;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 509 AAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 560
Db 1366667 AAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 1366616

RESULT 12
US-10-027-632-131328/c
/ Sequence 131328, Application US/10027632
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
/ TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
/ POLYMORPHISMS IN THE HUMAN GENOME
/ FILE REFERENCE: 108827.129
/ CURRENT APPLICATION NUMBER: US/10/027,632
/ PRIOR FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
/ PRIOR FILING DATE: 2000-07-12
/ PRIOR APPLICATION NUMBER: US 60/198,676
/ PRIOR FILING DATE: 2000-04-20
/ PRIOR APPLICATION NUMBER: US 60/193,483
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: US 60/185,218
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: US 60/167,363
/ PRIOR FILING DATE: 1999-11-23
```

```
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ PRIOR FILING DATE: 1999-08-09
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 131328
/ LENGTH: 739
/ TYPE: DNA
/ ORGANISM: Human
/ US-10-027-632-131328

Query Match
Best Local Similarity 100.0%; Score 51; DB 13; Length 739;
Pred. No. 1.2e-15; Mismatches 0; Indels 0; Gaps 0;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 335 GTCTCTACTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 385
Db 645 GTCTCTACTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 595

RESULT 13
US-10-027-632-131329
/ Sequence 131329, Application US/10027632
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
/ TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
/ POLYMORPHISMS IN THE HUMAN GENOME
/ FILE REFERENCE: 108827.129
/ CURRENT APPLICATION NUMBER: US/10/027,632
/ PRIOR FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
/ PRIOR FILING DATE: 2000-07-12
/ PRIOR APPLICATION NUMBER: US 60/198,676
/ PRIOR FILING DATE: 2000-04-20
/ PRIOR APPLICATION NUMBER: US 60/193,483
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: US 60/185,218
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: US 60/167,363
/ PRIOR FILING DATE: 1999-11-23
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ PRIOR FILING DATE: 1999-08-09
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 131329
/ LENGTH: 761
/ TYPE: DNA
/ ORGANISM: Human
/ US-10-027-632-131329

Query Match
Best Local Similarity 100.0%; Score 51; DB 13; Length 761;
Pred. No. 1.2e-15; Mismatches 0; Indels 0; Gaps 0;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 335 GTCTCTACTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 385
Db 390 GTCTCTACTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTC 440

RESULT 14
US-10-027-632-131330
/ Sequence 131330, Application US/10027632
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
/ TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
/ POLYMORPHISMS IN THE HUMAN GENOME
/ FILE REFERENCE: 108827.129
/ CURRENT APPLICATION NUMBER: US/10/027,632
/ PRIOR FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
```



```

; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131330
; LENGTH: 761
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-131330
```

```

Query Match          5.1%; Score 51; DB 13; Length 761;
Best Local Similarity 100.0%; Pred. No. 1.2e-15;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      335 GTCTCTACTAAATACAAAATTAGCGAGTGCTGTGCGACACGCGCTGTA 385
Db      390 GTCTCTACTAAATACAAAATTAGCGAGTGCTGTGCGACACGCGCTGTA 440
```

```

RESULT 15
US-10-027-632-149274
; Sequence 149274, Application us/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: us/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 149274
; LENGTH: 761
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-149274
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Query Match          5.1%; Score 51; DB 13; Length 761;
Best Local Similarity 100.0%; Pred. No. 1.2e-15;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      335 GTCTCTACTAAATACAAAATTAGCGAGTGCTGTGCGACACGCGCTGTA 385
Db      390 GTCTCTACTAAATACAAAATTAGCGAGTGCTGTGCGACACGCGCTGTA 440
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Search completed: October 9, 2003, 17:53:41
Job time : 369.524 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 9, 2003, 15:06:32 ; Search time 2.47619 Seconds
(without alignments)
4456.272 Million cell updates/sec

Title: US-09-784-423-124

Perfect score: 25
Sequence: 1 GGTTCAGTGCAGCCGAGATTAAGACT 25

Scoring table: OLIGO_NTC
Gapop 60.0 , Gapext 60.0

Searched: 569978 seqs, 220691566 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database :

Issued Patents NA: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	25	100.0	25	US-09-018-584A-124	Sequence 124, App
2	25	100.0	1000	US-09-018-584A-32	Sequence 32, App
3	20	80.0	764	US-09-288-143-57	Sequence 57, App
4	20	80.0	1875	US-08-683-743-3	Sequence 3, App
5	20	80.0	4042	US-08-406-030A-17	Sequence 17, App
6	20	80.0	4129	US-08-370-119C-12	Sequence 12, App
7	20	80.0	4129	US-09-224-834-12	Sequence 12, App
8	20	80.0	45716	US-08-965-048-5	Sequence 5, App
9	20	80.0	45989	US-08-965-048-6	Sequence 6, App
10	19	76.0	21	US-08-133-629-2	Sequence 2, App
11	19	76.0	239	US-08-687-080-93	Sequence 93, App
12	19	76.0	265	US-08-849-701-1	Sequence 1, App
13	19	76.0	283	US-08-579-445-26	Sequence 26, App
14	19	76.0	294	US-08-461-6588-61	Sequence 61, App
15	19	76.0	294	US-08-477-504A-61	Sequence 61, App
16	19	76.0	294	US-08-486-756A-61	Sequence 61, App
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21	19	76.0	294	US-08-485-863A-61	Sequence 61, App
22	19	76.0	294	US-08-485-049D-61	Sequence 61, App
23	19	76.0	294	US-09-178-115-61	Sequence 61, App
24	19	76.0	302	US-09-177-776-61	Sequence 61, App
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C 47	19	76.0	379	3	US-09-157-177-134	Sequence 134, App
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C 52	19	76.0	618	3	US-09-385-982-218	Sequence 218, App
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C 55	19	76.0	678	4	US-09-702-705-208	Sequence 208, App
C 56	19	76.0	678	4	US-09-736-457-208	Sequence 208, App
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C 59	19	76.0	775	4	US-09-227-357-108	Sequence 108, App
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C 68	19	76.0	889	1	US-08-632-883-52	Sequence 52, App
C 69	19	76.0	889	2	US-08-632-877-52	Sequence 52, App
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C 78	19	76.0	1001	4	US-09-671-317-274	Sequence 274, App
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C 89	19	76.0	1174	2	US-08-477-504A-39	Sequence 39, App
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C 94	19	76.0	1174	3	US-08-485-863A-39	Sequence 39, App
C 95	19	76.0	1174	3	US-08-485-049D-39	Sequence 39, App
C 96	19	76.0	1174	3	US-09-178-115-39	Sequence 39, App
C 97	19	76.0	1175	4	US-09-177-776-39	Sequence 39, App
C 98	19	76.0	1200	3	US-09-489-847-105	Sequence 105, App
C 99	19	76.0	1236	4	US-09-018-584A-37	Sequence 37, App
C 100	19	76.0	1237	4	US-09-918-686-19	Sequence 19, App
					US-09-535-008-56	Sequence 56, App

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C 102	19	76.0	1280	4	US-08-705-477E-94	Sequence 94, Appl	175	19	76.0	2224	4	US-09-016-434-1387	Sequence 187, Ap
C 103	19	76.0	1351	4	US-09-205-258-104	Sequence 104, App	176	19	76.0	2255	3	US-08-871-572B-3	Sequence 3, Appl
C 104	19	76.0	1361	4	US-09-489-847-64	Sequence 64, Appl	C 177	19	76.0	2309	4	US-09-449-437A-5	Sequence 5, Appl
C 105	19	76.0	1363	1	US-08-776-088-21	Sequence 21, Appl	C 178	19	76.0	2309	4	US-09-195-106-1	Sequence 1, Appl
C 106	19	76.0	1363	5	PCT-US95-09145A-21	Sequence 21, Appl	C 179	19	76.0	2331	4	US-10-020-079-23	Sequence 23, Appl
C 107	19	76.0	1373	4	US-09-482-273-70	Sequence 70, Appl	C 180	19	76.0	2334	4	US-09-493-565-1	Sequence 1, Appl
C 108	19	76.0	1395	4	US-09-996-243-35	Sequence 35, Appl	C 181	19	76.0	2370	4	US-10-020-079-21	Sequence 21, Appl
C 109	19	76.0	1398	4	US-09-461-325-70	Sequence 70, Appl	C 182	19	76.0	2420	1	US-08-330-123A-3	Sequence 3, Appl
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C 111	19	76.0	1401	2	US-08-477-504A-49	Sequence 49, Appl	C 184	19	76.0	2425	3	US-08-485-778-1	Sequence 1, Appl
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C 114	19	76.0	1401	3	US-08-787-739-49	Sequence 49, Appl	C 187	19	76.0	2426	2	US-08-660-078A-3	Sequence 3, Appl
C 115	19	76.0	1401	3	US-08-487-077A-49	Sequence 49, Appl	C 188	19	76.0	2426	2	US-08-472-802C-4	Sequence 4, Appl
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C 117	19	76.0	1401	3	US-08-485-049D-49	Sequence 49, Appl	C 190	19	76.0	2426	3	US-08-998-443-3	Sequence 3, Appl
C 118	19	76.0	1401	3	US-09-178-115-49	Sequence 49, Appl	C 191	19	76.0	2426	3	US-09-060-523-3	Sequence 3, Appl
C 119	19	76.0	1401	3	US-09-177-776-49	Sequence 49, Appl	C 192	19	76.0	2426	4	US-09-057-351-3	Sequence 3, Appl
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C 121	19	76.0	1442	2	US-08-454-557C-120	Sequence 120, App	C 194	19	76.0	2458	4	US-09-996-243-502	Sequence 502, App
C 122	19	76.0	1442	2	US-08-340-426D-120	Sequence 120, App	C 195	19	76.0	2480	4	US-09-534-638-3	Sequence 3, Appl
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C 124	19	76.0	1491	1	US-08-913-014A-5	Sequence 5, Appl	C 197	19	76.0	2561	4	US-09-270-542-119	Sequence 119, App
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C 126	19	76.0	1534	1	US-08-483-553-13	Sequence 13, Appl	C 199	19	76.0	2611	4	US-10-020-079-29	Sequence 29, Appl
C 127	19	76.0	1534	1	US-08-487-002-13	Sequence 13, Appl	C 200	19	76.0	2640	4	US-09-857-447-3	Sequence 3, Appl
C 128	19	76.0	1534	1	US-08-488-011B-13	Sequence 13, Appl	C 201	19	76.0	2640	4	US-09-857-447-4	Sequence 4, Appl
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C 130	19	76.0	1534	3	US-08-850-727-13	Sequence 13, Appl	C 203	19	76.0	2688	4	US-10-020-079-17	Sequence 17, Appl
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C 132	19	76.0	1534	5	PCT-US95-10203-13	Sequence 13, Appl	C 205	19	76.0	2713	4	US-09-154-602-6	Sequence 6, Appl
C 133	19	76.0	1534	4	PCT-US95-10220-13	Sequence 13, Appl	C 206	19	76.0	2784	2	US-08-471-454-1	Sequence 1, Appl
C 134	19	76.0	1558	4	US-09-369-247-37	Sequence 37, Appl	C 207	19	76.0	2784	2	US-08-466-974-1	Sequence 1, Appl
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C 136	19	76.0	1656	2	US-08-465-981-2	Sequence 2, Appl	C 209	19	76.0	2834	3	US-09-305-384-6	Sequence 6, Appl
C 137	19	76.0	1656	5	PCT-US93-11915-2	Sequence 2, Appl	C 210	19	76.0	2900	3	US-09-038-832-1	Sequence 1, Appl
C 138	19	76.0	1690	3	US-08-943-731-166	Sequence 166, App	C 211	19	76.0	2931	4	US-10-020-079-27	Sequence 27, Appl
C 139	19	76.0	1701	3	US-09-078-294-9	Sequence 9, Appl	C 212	19	76.0	2932	4	US-09-016-434-1419	Sequence 1419, Ap
C 140	19	76.0	1725	1	US-08-324-465-5	Sequence 5, Appl	C 213	19	76.0	2949	4	US-10-020-079-25	Sequence 25, Appl
C 141	19	76.0	1725	2	US-08-465-981-5	Sequence 5, Appl	C 214	19	76.0	3000	4	US-09-705-677-18	Sequence 18, Appl
C 142	19	76.0	1725	5	PCT-US93-11915-5	Sequence 5, Appl	C 215	19	76.0	3001	4	US-09-539-330D-151	Sequence 151, App
C 143	19	76.0	1743	4	US-09-261-599B-2	Sequence 2, Appl	C 216	19	76.0	3001	4	US-09-539-330D-153	Sequence 153, App
C 144	19	76.0	1743	4	US-09-456-455A-2	Sequence 2, Appl	C 217	19	76.0	3001	4	US-09-539-330-155	Sequence 155, App
C 145	19	76.0	1748	4	US-08-202-056-8	Sequence 8, Appl	C 218	19	76.0	3001	4	US-09-539-330-193	Sequence 193, App
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C 148	19	76.0	1853	4	US-09-433-313-369	Sequence 369, App	C 221	19	76.0	3224	3	US-08-965-729A-2	Sequence 2, Appl
C 149	19	76.0	1853	4	US-09-062-451-295	Sequence 295, App	C 222	19	76.0	3224	3	US-08-247-946A-2	Sequence 2, Appl
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C 152	19	76.0	1901	3	US-09-338-907-181	Sequence 181, App	C 225	19	76.0	3366	1	US-08-267-803B-1	Sequence 1, Appl
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C 154	19	76.0	1924	1	US-08-480-784-14	Sequence 14, Appl	C 227	19	76.0	3507	2	US-08-832-887-67	Sequence 67, Appl
C 155	19	76.0	1924	1	US-08-483-553-14	Sequence 14, Appl	C 228	19	76.0	3507	2	US-08-832-887-67	Sequence 67, Appl
C 156	19	76.0	1924	1	US-08-487-002-14	Sequence 14, Appl	C 229	19	76.0	3621	2	US-09-019-701A-1	Sequence 1, Appl
C 157	19	76.0	1924	1	US-08-483-554B-14	Sequence 14, Appl	C 230	19	76.0	3627	4	US-09-323-873A-16	Sequence 16, Appl
C 158	19	76.0	1924	1	US-08-488-011B-14	Sequence 14, Appl	C 231	19	76.0	3633	3	US-09-499-884-11	Sequence 11, Appl
C 159	19	76.0	1924	3	US-08-850-727-14	Sequence 14, Appl	C 232	19	76.0	3634	4	US-09-232-200-46	Sequence 46, Appl
C 160	19	76.0	1924	5	PCT-US95-10202-14	Sequence 14, Appl	C 233	19	76.0	3634	4	US-09-232-197-46	Sequence 46, Appl
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C 163	19	76.0	1926	3	US-09-117-250-4	Sequence 4, Appl	C 236	19	76.0	3704	3	US-09-232-197-24	Sequence 24, Appl
C 164	19	76.0	1988	2	US-08-257-963B-11	Sequence 11, Appl	C 237	19	76.0	3704	4	US-09-232-201-24	Sequence 24, Appl
C 165	19	76.0	1988	2	US-08-367-841A-11	Sequence 11, Appl	C 238	19	76.0	3804	4	US-09-620-3120-894	Sequence 894, App
C 166	19	76.0	1988	5	PCT-US95-07201-11	Sequence 11, Appl	C 239	19	76.0	3883	4	US-09-620-3120-792	Sequence 792, App
C 167	19	76.0	2091	4	US-09-620-312D-743	Sequence 743, App	C 240	19	76.0	3883	4	US-08-688-145-1	Sequence 1, Appl
C 168	19	76.0	2091	4	US-09-369-247-46	Sequence 46, Appl	C 241	19	76.0	4078	4	US-09-016-434-1109	Sequence 1109, Ap
C 169	19	76.0	2125	3	US-09-305-639-6	Sequence 6, Appl	C 242	19	76.0	4183	3	US-09-460-145-1	Sequence 1, Appl
C 170	19	76.0	2133	3	US-08-808-032-1	Sequence 1, Appl	C 243	19	76.0	4183	4	US-09-895-547-1	Sequence 1, Appl
C 171	19	76.0	2184	4	US-09-439-313-370	Sequence 370, App	C 244	19	76.0	4421	2	US-08-257-963B-9	Sequence 9, Appl
C 172	19	76.0	2184	4	US-09-062-451-296	Sequence 296, App	C 245	19	76.0	4421	2	US-08-257-963B-9	Sequence 9, Appl
C 173	19	76.0	2184	4	US-09-352-616A-370	Sequence 370, App	C 246	19	76.0	4421	4	US-08-367-841A-9	Sequence 9, Appl

C 247	19	76.0	4421	4	US-08-367-841A-9	Sequence 9, Appl1	320	19	76.0	11531	1	US-08-442-806-1	Sequence 1, Appl1
C 248	19	76.0	4421	4	US-08-520-373D-6	Sequence 6, Appl1	321	19	76.0	11531	4	US-09-355-295B-1	Sequence 1, Appl1
C 249	19	76.0	4421	4	US-08-520-373D-6	Sequence 6, Appl1	322	19	76.0	11531	3	US-09-078-294-7	Sequence 7, Appl1
C 250	19	76.0	4421	5	PCT-US95-07201-9	Sequence 9, Appl1	C 323	19	76.0	11811	1	US-09-078-294-7	Sequence 7, Appl1
C 251	19	76.0	4421	4	US-09-879-833-3	Sequence 9, Appl1	C 324	19	76.0	12047	2	US-09-022-461-1	Sequence 1, Appl1
C 252	19	76.0	4444	4	US-09-879-833-3	Sequence 9, Appl1	C 325	19	76.0	12047	4	US-09-033-556-3	Sequence 3, Appl1
C 253	19	76.0	4521	4	US-09-533-494A-18	Sequence 18, Appl1	C 326	19	76.0	12047	4	US-09-474-699-11	Sequence 11, Appl1
C 254	19	76.0	4668	3	US-09-045-301-1	Sequence 1, Appl1	C 327	19	76.0	12143	4	US-09-423-744A-1	Sequence 1, Appl1
C 255	19	76.0	4793	3	US-09-561-497-10	Sequence 10, Appl1	C 328	19	76.0	12394	4	US-09-488-856A-10	Sequence 10, Appl1
C 256	19	76.0	4895	3	US-09-053-866-1	Sequence 1, Appl1	C 329	19	76.0	12565	3	US-09-345-217-3	Sequence 3, Appl1
C 257	19	76.0	4885	4	US-09-479-130-1	Sequence 1, Appl1	C 330	19	76.0	12647	1	US-08-550-715-1	Sequence 1, Appl1
C 258	19	76.0	4895	4	US-09-472-130A-1	Sequence 1, Appl1	C 331	19	76.0	13104	3	US-08-256-799-4	Sequence 4, Appl1
C 259	19	76.0	5009	3	US-08-978-1741-7	Sequence 7, Appl1	C 332	19	76.0	13104	3	US-08-462-437-4	Sequence 4, Appl1
C 260	19	76.0	5009	3	US-09-333-729A-8	Sequence 8, Appl1	C 333	19	76.0	14581	3	US-08-520-373D-6	Sequence 6, Appl1
C 261	19	76.0	5262	4	US-08-520-373D-5	Sequence 5, Appl1	C 334	19	76.0	14581	3	US-09-173-914-6	Sequence 6, Appl1
C 262	19	76.0	5375	3	US-08-757-223-7	Sequence 7, Appl1	C 335	19	76.0	14581	3	US-09-173-914-6	Sequence 6, Appl1
C 263	19	76.0	5605	3	US-09-268-140-6	Sequence 6, Appl1	C 336	19	76.0	14747	4	US-09-608-282A-42	Sequence 42, Appl1
C 264	19	76.0	6038	3	US-09-305-639-4	Sequence 4, Appl1	C 337	19	76.0	14747	4	US-09-557-800C-42	Sequence 42, Appl1
C 265	19	76.0	6038	4	US-09-525-160B-2	Sequence 2, Appl1	C 338	19	76.0	14796	3	US-08-975-080-35	Sequence 35, Appl1
C 266	19	76.0	6139	4	US-08-843-076D-33	Sequence 33, Appl1	C 339	19	76.0	14796	3	US-08-975-080-35	Sequence 35, Appl1
C 267	19	76.0	6235	3	US-09-305-384-5	Sequence 5, Appl1	C 340	19	76.0	14796	3	US-09-630-706-10	Sequence 10, Appl1
C 268	19	76.0	6235	4	US-09-525-160B-6	Sequence 6, Appl1	C 341	19	76.0	14796	3	US-09-630-706-10	Sequence 10, Appl1
C 269	19	76.0	6470	4	US-09-620-312D-255	Sequence 255, App	C 342	19	76.0	14796	4	US-09-496-694B-3	Sequence 3, Appl1
C 270	19	76.0	6623	2	US-08-687-080-68	Sequence 68, Appl1	C 343	19	76.0	14796	4	US-09-496-694B-3	Sequence 3, Appl1
C 271	19	76.0	6623	2	US-09-305-384-1	Sequence 1, Appl1	C 344	19	76.0	14855	2	US-08-687-080-59	Sequence 59, Appl1
C 272	19	76.0	6679	4	US-09-525-160B-5	Sequence 5, Appl1	C 345	19	76.0	15056	4	US-09-474-699-10	Sequence 10, Appl1
C 273	19	76.0	6757	4	US-09-620-312D-319	Sequence 319, App	C 346	19	76.0	15056	2	US-08-884-497-33	Sequence 33, Appl1
C 274	19	76.0	6792	4	US-09-374-454-20	Sequence 20, Appl1	C 347	19	76.0	15328	5	PCT-US94-07926-33	Sequence 33, Appl1
C 275	19	76.0	6792	4	US-09-374-454-20	Sequence 20, Appl1	C 348	19	76.0	15328	5	PCT-US94-07926-33	Sequence 33, Appl1
C 276	19	76.0	6799	2	US-08-520-312D-299	Sequence 299, App	C 349	19	76.0	15328	4	US-09-783-203-1	Sequence 1, Appl1
C 277	19	76.0	7210	2	US-08-557-963B-10	Sequence 10, Appl1	C 350	19	76.0	15328	4	US-09-608-282A-59	Sequence 59, Appl1
C 278	19	76.0	7210	2	US-08-367-841A-10	Sequence 10, Appl1	C 351	19	76.0	15328	4	US-09-608-282A-59	Sequence 59, Appl1
C 279	19	76.0	7210	5	PCT-US95-07201-10	Sequence 10, Appl1	C 352	19	76.0	16063	4	US-09-801-052-3	Sequence 3, Appl1
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C 281	19	76.0	7452	3	US-08-195-006-1	Sequence 1, Appl1	C 354	19	76.0	17000	4	US-09-679-299A-18	Sequence 18, Appl1
C 282	19	76.0	7452	5	PCT-US94-07644A-1	Sequence 1, Appl1	C 355	19	76.0	17000	4	US-08-076-011-1	Sequence 1, Appl1
C 283	19	76.0	7610	4	US-09-659-791A-12	Sequence 12, Appl1	C 356	19	76.0	17327	1	US-07-906-871-15	Sequence 15, Appl1
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C 289	19	76.0	7676	5	PCT-US95-06743-7	Sequence 7, Appl1	C 362	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
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C 294	19	76.0	8409	3	US-09-167-681-37	Sequence 37, Appl1	C 367	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 295	19	76.0	8835	3	US-08-884-324-10	Sequence 10, Appl1	C 368	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 296	19	76.0	9377	4	US-08-801-874-3	Sequence 3, Appl1	C 369	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 297	19	76.0	9531	4	US-09-163-748C-3	Sequence 3, Appl1	C 370	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 298	19	76.0	9837	1	US-08-832-883-68	Sequence 68, Appl1	C 371	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
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C 301	19	76.0	10079	2	US-08-476-866-20	Sequence 20, Appl1	C 374	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
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C 312	19	76.0	10898	3	US-09-177-776-5	Sequence 5, Appl1	C 385	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
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C 314	19	76.0	11288	4	US-08-481-968A-4	Sequence 4, Appl1	C 387	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 315	19	76.0	11288	4	US-08-154-712B-4	Sequence 4, Appl1	C 388	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 316	19	76.0	11298	1	US-07-869-933-31	Sequence 31, Appl1	C 389	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 317	19	76.0	11298	1	US-08-201-879A-2	Sequence 2, Appl1	C 390	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 318	19	76.0	11298	3	US-09-103-663-31	Sequence 31, Appl1	C 391	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
C 319	19	76.0	11531	1	US-08-669-161A-29	Sequence 29, Appl1	C 392	19	76.0	18000	3	US-09-078-294-12	Sequence 12, Appl1
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C 393	19	76.0	31208	4	US-09-852-067-3	Sequence 3, Appl1	C 466	19	76.0	72604	4	US-09-657-474-7	Sequence 7, Appl1
C 394	19	76.0	31571	1	US-08-323-443B-1	Sequence 1, Appl1	467	19	76.0	72928	3	US-09-009-913-1	Sequence 1, Appl1
C 395	19	76.0	32042	4	US-09-245-281-4	Sequence 44, Appl1	468	19	76.0	74962	4	US-09-685-853A-3	Sequence 3, Appl1
C 396	19	76.0	32042	4	US-09-340-620A-63	Sequence 63, Appl1	C 469	19	76.0	74962	4	US-09-685-853A-3	Sequence 3, Appl1
C 397	19	76.0	32654	4	US-09-801-191A-3	Sequence 3, Appl1	C 470	19	76.0	75395	4	US-09-684-890-3	Sequence 3, Appl1
C 398	19	76.0	32654	4	US-09-801-191A-3	Sequence 3, Appl1	C 471	19	76.0	75395	4	US-09-684-890-3	Sequence 3, Appl1
C 399	19	76.0	35060	3	US-08-814-095-7	Sequence 7, Appl1	C 472	19	76.0	80246	3	US-09-078-294-4	Sequence 4, Appl1
C 400	19	76.0	35100	1	US-08-306-691B-19	Sequence 19, Appl1	C 473	19	76.0	80246	3	US-09-078-294-4	Sequence 4, Appl1
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C 402	19	76.0	35100	5	PCT-US93-06251-19	Sequence 19, Appl1	C 475	19	76.0	83450	4	US-09-811-469-3	Sequence 3, Appl1
C 403	19	76.0	35100	5	PCT-US93-06251-19	Sequence 19, Appl1	C 476	19	76.0	83450	4	US-09-811-469-3	Sequence 3, Appl1
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C 405	19	76.0	36651	4	US-09-738-894A-3	Sequence 3, Appl1	C 478	19	76.0	84495	4	US-09-797-906-3	Sequence 3, Appl1
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C 407	19	76.0	36651	4	US-09-964-469-3	Sequence 3, Appl1	C 480	19	76.0	87350	3	US-08-781-891-79	Sequence 79, Appl1
C 408	19	76.0	36651	4	US-09-964-469-3	Sequence 3, Appl1	C 481	19	76.0	87350	4	US-09-618-166-79	Sequence 79, Appl1
C 409	19	76.0	36741	3	US-09-301-665-3	Sequence 3, Appl1	C 482	19	76.0	87350	4	US-09-618-166-79	Sequence 79, Appl1
C 410	19	76.0	36741	3	US-09-301-665-3	Sequence 3, Appl1	C 483	19	76.0	87543	4	US-09-791-211-3	Sequence 3, Appl1
C 411	19	76.0	38564	4	US-09-734-673-3	Sequence 3, Appl1	C 484	19	76.0	87543	4	US-09-791-211-3	Sequence 3, Appl1
C 412	19	76.0	38653	4	US-09-922-445-1	Sequence 1, Appl1	C 485	19	76.0	90541	4	US-09-759-359A-3	Sequence 3, Appl1
C 413	19	76.0	38653	4	US-09-734-675-3	Sequence 3, Appl1	C 486	19	76.0	90541	4	US-09-759-359A-3	Sequence 3, Appl1
C 414	19	76.0	39844	4	US-09-820-924-3	Sequence 3, Appl1	C 487	19	76.0	92139	4	US-09-918-686-1	Sequence 1, Appl1
C 415	19	76.0	39882	4	US-09-820-924-3	Sequence 3, Appl1	C 488	19	76.0	92139	4	US-09-918-686-1	Sequence 1, Appl1
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C 419	19	76.0	42571	4	US-09-810-347-3	Sequence 3, Appl1	C 492	19	76.0	99500	4	US-09-798-096-10	Sequence 10, Appl1
C 420	19	76.0	43069	4	US-09-292-542A-1	Sequence 1, Appl1	C 493	19	76.0	112132	4	US-09-741-150-3	Sequence 3, Appl1
C 421	19	76.0	43950	4	US-09-735-934A-3	Sequence 3, Appl1	C 494	19	76.0	112132	4	US-09-741-150-3	Sequence 3, Appl1
C 422	19	76.0	43950	4	US-09-735-934A-3	Sequence 3, Appl1	C 495	19	76.0	116592	4	US-09-818-512-3	Sequence 3, Appl1
C 423	19	76.0	43950	4	US-10-060-332-3	Sequence 3, Appl1	C 496	19	76.0	148567	3	US-09-801-876B-3	Sequence 3, Appl1
C 424	19	76.0	43950	4	US-10-060-332-3	Sequence 3, Appl1	C 497	19	76.0	152331	3	US-09-128-155-16	Sequence 16, Appl1
C 425	19	76.0	45546	4	US-09-146-053-6	Sequence 6, Appl1	C 498	19	76.0	152331	3	US-09-128-155-16	Sequence 16, Appl1
C 426	19	76.0	45716	4	US-08-965-048-5	Sequence 5, Appl1	C 499	19	76.0	162450	4	US-09-345-882-1	Sequence 1, Appl1
C 427	19	76.0	45989	4	US-08-965-048-6	Sequence 6, Appl1	C 500	19	76.0	162450	4	US-09-345-882-1	Sequence 1, Appl1
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C 431	19	76.0	49312	4	US-09-671-317-485	Sequence 485, App	C 504	19	76.0	174493	4	US-09-804-471A-3	Sequence 3, Appl1
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C 436	19	76.0	51552	4	US-09-733-294A-30	Sequence 30, Appl1	C 509	19	76.0	246240	2	US-08-724-394A-20	Sequence 20, Appl1
C 437	19	76.0	51552	4	US-09-733-294A-30	Sequence 30, Appl1	C 510	19	76.0	246240	2	US-08-724-394A-20	Sequence 20, Appl1
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C 440	19	76.0	53332	4	US-09-801-861-3	Sequence 2, Appl1	C 513	19	76.0	246240	2	US-08-724-394A-22	Sequence 22, Appl1
C 441	19	76.0	53526	3	US-08-658-136-2	Sequence 2, Appl1	C 514	19	76.0	246240	2	US-08-724-394A-22	Sequence 22, Appl1
C 442	19	76.0	53577	3	US-08-658-136-1	Sequence 1, Appl1	C 515	19	76.0	319608	4	US-09-539-333D-1	Sequence 1, Appl1
C 443	19	76.0	55298	4	US-09-491-356C-1	Sequence 1, Appl1	C 516	19	76.0	319608	4	US-09-539-333D-1	Sequence 1, Appl1
C 444	19	76.0	55298	4	US-09-491-356C-1	Sequence 1, Appl1	C 517	19	76.0	319608	4	US-09-679-409-1	Sequence 1, Appl1
C 445	19	76.0	55827	4	US-09-813-133A-3	Sequence 3, Appl1	C 518	19	76.0	319608	4	US-09-679-409-1	Sequence 1, Appl1
C 446	19	76.0	55827	4	US-09-813-133A-3	Sequence 3, Appl1	C 519	18	72.0	288	1	US-08-157-171-8	Sequence 8, Appl1
C 447	19	76.0	56516	2	US-08-996-306-1	Sequence 1, Appl1	C 520	18	72.0	289	2	US-08-481-658B-63	Sequence 63, Appl1
C 448	19	76.0	56516	2	US-08-996-306-1	Sequence 1, Appl1	C 521	18	72.0	289	2	US-08-477-504A-53	Sequence 63, Appl1
C 449	19	76.0	56516	4	US-09-338-907-1	Sequence 1, Appl1	C 522	18	72.0	289	2	US-08-485-862B-63	Sequence 63, Appl1
C 450	19	76.0	56520	3	US-09-338-907-179	Sequence 179, App	C 523	18	72.0	289	2	US-08-485-862B-63	Sequence 63, Appl1
C 451	19	76.0	56520	4	US-09-218-207-179	Sequence 179, App	C 524	18	72.0	289	3	US-08-787-739-63	Sequence 63, Appl1
C 452	19	76.0	59065	4	US-09-813-817-3	Sequence 3, Appl1	C 525	18	72.0	289	3	US-08-487-077A-63	Sequence 63, Appl1
C 453	19	76.0	59065	4	US-09-813-817-3	Sequence 3, Appl1	C 526	18	72.0	289	3	US-08-485-863A-63	Sequence 63, Appl1
C 454	19	76.0	62804	4	US-09-800-960-3	Sequence 3, Appl1	C 527	18	72.0	289	3	US-08-485-863A-63	Sequence 63, Appl1
C 455	19	76.0	63588	4	US-09-873-404-3	Sequence 3, Appl1	C 528	18	72.0	289	3	US-09-178-115-63	Sequence 63, Appl1
C 456	19	76.0	63588	4	US-09-873-404-3	Sequence 3, Appl1	C 529	18	72.0	289	3	US-09-177-776-63	Sequence 63, Appl1
C 457	19	76.0	64467	4	US-09-803-671B-3	Sequence 3, Appl1	C 530	18	72.0	295	2	US-08-849-701-8	Sequence 8, Appl1
C 458	19	76.0	65042	4	US-09-784-316-3	Sequence 3, Appl1	C 531	18	72.0	562	4	US-09-495-050A-206	Sequence 206, App
C 459	19	76.0	66804	4	US-09-740-041-3	Sequence 3, Appl1	C 532	18	72.0	798	4	US-09-288-143-21	Sequence 21, Appl1
C 460	19	76.0	66804	4	US-09-740-041-3	Sequence 3, Appl1	C 533	18	72.0	1334	2	US-08-481-658B-44	Sequence 44, Appl1
C 461	19	76.0	70000	4	US-09-851-896-3	Sequence 3, Appl1	C 534	18	72.0	1334	2	US-08-477-504A-44	Sequence 44, Appl1
C 462	19	76.0	70000	4	US-09-851-896-3	Sequence 3, Appl1	C 535	18	72.0	1334	2	US-08-486-756A-44	Sequence 44, Appl1
C 463	19	76.0	72604	4	US-09-268-992-7	Sequence 7, Appl1	C 536	18	72.0	1334	2	US-08-485-862B-44	Sequence 44, Appl1
C 464	19	76.0	72604	4	US-09-268-992-7	Sequence 7, Appl1	C 537	18	72.0	1334	3	US-08-787-739-44	Sequence 44, Appl1
C 465	19	76.0	72604	4	US-09-657-474-7	Sequence 7, Appl1	C 538	18	72.0	1334	3	US-08-487-077A-44	Sequence 44, Appl1

539	18	72.0	1334	3	US-08-485-863A-44	Sequence 44, Appl	C 612	17	68.0	292	3	US-08-485-049D-59	Sequence 59, Appl
540	18	72.0	1334	3	US-08-485-049D-44	Sequence 44, Appl	C 613	17	68.0	292	3	US-09-178-115-56	Sequence 56, Appl
541	18	72.0	1334	3	US-09-178-115-44	Sequence 44, Appl	C 614	17	68.0	292	3	US-09-178-115-59	Sequence 59, Appl
542	18	72.0	1334	3	US-09-177-776-44	Sequence 44, Appl	C 615	17	68.0	292	3	US-09-177-776-56	Sequence 56, Appl
543	18	72.0	1491	4	US-09-461-325-22	Sequence 22, Appl	C 616	17	68.0	292	3	US-09-177-776-59	Sequence 59, Appl
544	18	72.0	1681	4	US-09-389-681-180	Sequence 180, App	C 617	17	68.0	320	1	US-08-629-933-5	Sequence 5, Appl
545	18	72.0	1681	4	US-09-620-405B-180	Sequence 180, App	C 618	17	68.0	320	1	US-08-759-877-5	Sequence 5, Appl
546	18	72.0	1681	4	US-09-339-338-180	Sequence 180, App	C 619	17	68.0	345	3	US-09-385-982-145	Sequence 145, Appl
547	18	72.0	1681	4	US-09-433-826B-180	Sequence 180, App	C 620	17	68.0	421	2	US-08-332-766A-25	Sequence 25, Appl
548	18	72.0	1681	4	US-09-604-287A-180	Sequence 180, App	C 621	17	68.0	471	3	US-09-018-588A-6	Sequence 6, Appl
549	18	72.0	1856	1	US-08-157-171-3	Sequence 3, Appl	C 622	17	68.0	498	3	US-09-085-199B-36	Sequence 36, Appl
550	18	72.0	1856	1	US-09-050-159-128	Sequence 128, App	C 623	17	68.0	571	4	US-09-495-050A-44	Sequence 44, Appl
551	18	72.0	2630	4	US-09-962-665-13	Sequence 13, Appl	C 624	17	68.0	578	3	US-09-385-982-11	Sequence 11, Appl
552	18	72.0	2743	1	US-08-317-707-1	Sequence 1, Appl	C 625	17	68.0	584	4	US-09-495-050A-99	Sequence 99, Appl
553	18	72.0	3001	4	US-09-539-333D-197	Sequence 197, App	C 626	17	68.0	601	4	US-09-814-951A-14	Sequence 14, Appl
554	18	72.0	3433	4	US-09-820-924-3	Sequence 1, Appl	C 627	17	68.0	602	3	US-09-078-294-27	Sequence 27, Appl
555	18	72.0	4080	2	US-08-710-249-3	Sequence 3, Appl	C 628	17	68.0	631	3	US-09-385-982-354	Sequence 354, Appl
556	18	72.0	4080	2	US-09-220-157A-3	Sequence 3, Appl	C 629	17	68.0	654	4	US-09-288-143-37	Sequence 37, Appl
557	18	72.0	5420	6	5256642-3	Sequence 3, Appl	C 630	17	68.0	698	4	US-09-740-235-14	Sequence 14, Appl
558	18	72.0	5420	6	5472939-3	Sequence 3, Appl	C 631	17	68.0	722	4	US-09-227-357-112	Sequence 112, Appl
559	18	72.0	5543	2	US-08-687-080-101	Sequence 101, App	C 632	17	68.0	725	4	US-09-328-475C-329	Sequence 329, App
560	18	72.0	5835	4	US-09-033-333-3	Sequence 3, Appl	C 633	17	68.0	747	4	US-09-641-638-277	Sequence 277, App
561	18	72.0	5835	4	US-09-033-333-3	Sequence 2, Appl	C 634	17	68.0	990	4	US-09-018-588A-34	Sequence 34, Appl
562	18	72.0	5835	4	US-09-614-953-3	Sequence 3, Appl	C 635	17	68.0	1000	3	US-09-018-588A-108	Sequence 108, App
563	18	72.0	5836	1	US-08-380-916-1	Sequence 1, Appl	C 636	17	68.0	1001	4	US-09-641-638-268	Sequence 268, App
564	18	72.0	5836	1	US-08-721-690-1	Sequence 1, Appl	C 637	17	68.0	1001	4	US-09-641-638-354	Sequence 354, App
565	18	72.0	5836	3	US-08-891-581-1	Sequence 1, Appl	C 638	17	68.0	1001	4	US-09-641-638-455	Sequence 455, App
566	18	72.0	5836	3	US-09-033-333-2	Sequence 2, Appl	C 639	17	68.0	1001	4	US-09-641-638-455	Sequence 455, App
567	18	72.0	5836	4	US-09-033-333-2	Sequence 1, Appl	C 640	17	68.0	1002	4	US-09-641-638-581	Sequence 581, App
568	18	72.0	5836	4	US-09-033-333-2	Sequence 2, Appl	C 641	17	68.0	1002	4	US-09-641-638-581	Sequence 581, App
569	18	72.0	5836	4	US-09-033-333-2	Sequence 1, Appl	C 642	17	68.0	1152	3	US-09-016-433-1325	Sequence 1325, Ap
570	18	72.0	5836	4	US-09-033-333-2	Sequence 1, Appl	C 643	17	68.0	1260	4	US-09-305-384-7	Sequence 7, Appl
571	18	72.0	6951	6	5256642-1	Sequence 9, Appl	C 644	17	68.0	1268	4	US-09-369-247-42	Sequence 42, Appl
572	18	72.0	7130	6	5472939-1	Sequence 31, Appl	C 645	17	68.0	1287	4	US-09-461-325-18	Sequence 18, Appl
573	18	72.0	7233	4	US-09-056-105-31	Sequence 259, App	C 646	17	68.0	1294	4	US-09-904-615-26	Sequence 26, Appl
574	18	72.0	7680	4	US-09-210-312D-259	Sequence 3, Appl	C 647	17	68.0	1311	4	US-09-620-312D-322	Sequence 322, App
575	18	72.0	10380	3	US-09-077-354B-3	Sequence 3, Appl	C 648	17	68.0	1318	2	US-08-439-814-3	Sequence 3, Appl
576	18	72.0	10898	2	US-08-481-658B-5	Sequence 5, Appl	C 649	17	68.0	1610	4	US-09-620-312D-1049	Sequence 1049, Ap
577	18	72.0	10898	2	US-08-477-504A-5	Sequence 5, Appl	C 650	17	68.0	1645	2	US-08-724-394A-14	Sequence 14, Appl
578	18	72.0	10898	2	US-08-486-762B-5	Sequence 5, Appl	C 651	17	68.0	1677	4	US-09-483-277-65	Sequence 65, Appl
579	18	72.0	10898	2	US-08-486-762B-5	Sequence 5, Appl	C 652	17	68.0	1688	2	US-08-439-814-2	Sequence 2, Appl
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581	18	72.0	10898	3	US-08-487-077A-5	Sequence 5, Appl	C 654	17	68.0	1751	4	US-09-611-781-12	Sequence 12, Appl
582	18	72.0	10898	3	US-08-485-863A-5	Sequence 5, Appl	C 655	17	68.0	2090	2	US-09-149-476-110	Sequence 110, App
583	18	72.0	10898	3	US-08-485-049D-5	Sequence 5, Appl	C 656	17	68.0	2099	3	US-08-439-814-1	Sequence 1, Appl
584	18	72.0	10898	3	US-09-178-115-5	Sequence 5, Appl	C 657	17	68.0	2099	3	US-08-938-666A-5	Sequence 5, Appl
585	18	72.0	10898	3	US-09-177-776-5	Sequence 5, Appl	C 658	17	68.0	2099	3	US-09-306-828-5	Sequence 5, Appl
586	18	72.0	40328	3	US-08-742-185-102	Sequence 102, App	C 659	17	68.0	2236	3	US-08-829-528-23	Sequence 23, Appl
587	18	72.0	40352	4	US-08-846-111D-15	Sequence 15, Appl	C 660	17	68.0	2236	3	US-08-829-528-23	Sequence 23, Appl
588	18	72.0	40352	4	US-09-443-077-15	Sequence 15, Appl	C 661	17	68.0	2236	4	US-08-937-399-23	Sequence 23, Appl
589	18	72.0	41684	4	US-09-536-059-1	Sequence 1, Appl	C 662	17	68.0	2236	4	US-09-310-367-23	Sequence 23, Appl
590	18	72.0	43795	3	US-08-742-185-101	Sequence 101, App	C 663	17	68.0	2236	4	US-09-032-337-23	Sequence 23, Appl
591	18	72.0	43795	3	US-08-742-185-101	Sequence 101, App	C 664	17	68.0	2236	4	US-09-464-231-23	Sequence 23, Appl
592	18	72.0	81001	4	US-09-750-580-1	Sequence 1, Appl	C 665	17	68.0	2343	2	US-09-031-392-1	Sequence 1, Appl
593	18	72.0	148567	4	US-09-801-876B-3	Sequence 3, Appl	C 666	17	68.0	2343	4	US-09-299-549-1	Sequence 1, Appl
594	18	72.0	197496	4	US-09-877-177A-10	Sequence 10, Appl	C 667	17	68.0	2343	4	US-09-610-417-1	Sequence 1, Appl
595	17	68.0	26	4	US-09-387-300-27	Sequence 27, Appl	C 668	17	68.0	2501	3	US-08-787-739-58	Sequence 58, Appl
596	17	68.0	42	4	US-09-387-300-24	Sequence 24, Appl	C 669	17	68.0	2501	3	US-09-178-115-58	Sequence 58, Appl
597	17	68.0	177	2	US-08-849-701-6	Sequence 6, Appl	C 670	17	68.0	2501	3	US-09-177-776-58	Sequence 58, Appl
598	17	68.0	292	2	US-08-881-658B-56	Sequence 56, Appl	C 671	17	68.0	2559	2	US-09-482-273B-3	Sequence 20, Appl
599	17	68.0	292	2	US-08-881-658B-59	Sequence 59, Appl	C 672	17	68.0	2559	2	US-08-724-774B-3	Sequence 3, Appl
600	17	68.0	292	2	US-08-877-504A-56	Sequence 56, Appl	C 673	17	68.0	2559	3	US-09-089-595-3	Sequence 3, Appl
601	17	68.0	292	2	US-08-877-504A-59	Sequence 59, Appl	C 674	17	68.0	2559	3	US-09-389-885-3	Sequence 3, Appl
602	17	68.0	292	2	US-08-486-756A-56	Sequence 56, Appl	C 675	17	68.0	2559	3	US-09-183-714B-3	Sequence 3, Appl
603	17	68.0	292	2	US-08-486-756A-59	Sequence 59, Appl	C 676	17	68.0	2559	4	US-09-642-281-3	Sequence 3, Appl
604	17	68.0	292	2	US-08-885-862B-56	Sequence 56, Appl	C 677	17	68.0	2559	4	US-09-589-717-3	Sequence 3, Appl
605	17	68.0	292	2	US-08-885-862B-59	Sequence 59, Appl	C 678	17	68.0	2892	2	US-09-218-363-1	Sequence 1, Appl
606	17	68.0	292	3	US-08-787-739-56	Sequence 56, Appl	C 679	17	68.0	2908	3	US-08-874-186-44	Sequence 44, Appl
607	17	68.0	292	3	US-08-787-739-59	Sequence 59, Appl	C 680	17	68.0	3011	1	US-07-821-716-1	Sequence 1, Appl
608	17	68.0	292	3	US-08-487-077A-55	Sequence 55, Appl	C 681	17	68.0	3011	4	US-08-406-824A-5	Sequence 5, Appl
609	17	68.0	292	3	US-08-487-077A-59	Sequence 59, Appl	C 682	17	68.0	3208	4	US-09-780-016-27	Sequence 27, Appl
610	17	68.0	292	3	US-08-885-863A-56	Sequence 56, Appl	C 683	17	68.0	3267	2	US-08-257-963B-12	Sequence 12, Appl
611	17	68.0	292	3	US-08-485-863A-59	Sequence 59, Appl	C 684	17	68.0				

C 685	17	68.0	3267	4	US-08-367-841A-12	Sequence 12, Appl	758	17	68.0	11613	1	US-08-484-044-10	Sequence 10, Appl
C 686	17	68.0	3267	5	PCT-US95-07201-12	Sequence 12, Appl	C 759	17	68.0	11970	2	US-09-345-217-1	Sequence 1, Appl
C 687	17	68.0	3268	3	US-09-211-417-2	Sequence 2, Appl	C 760	17	68.0	13158	3	US-08-687-080-105	Sequence 105, App
C 688	17	68.0	3366	4	US-09-345-650-2	Sequence 2, Appl	C 761	17	68.0	13205	4	US-09-835-811-3	Sequence 3, Appl
C 689	17	68.0	3494	3	US-09-334-601-5	Sequence 5, Appl	C 762	17	68.0	13674	2	US-08-852-807-1	Sequence 1, Appl
C 690	17	68.0	3532	3	US-08-787-739-90	Sequence 90, Appl	C 763	17	68.0	14747	4	US-09-608-285A-42	Sequence 42, Appl
C 691	17	68.0	3532	3	US-09-178-115-90	Sequence 90, Appl	C 764	17	68.0	14747	4	US-09-557-800C-42	Sequence 42, Appl
C 692	17	68.0	3532	3	US-09-177-776-90	Sequence 90, Appl	C 765	17	68.0	15788	4	US-09-520-750-13	Sequence 13, Appl
C 693	17	68.0	3609	4	US-09-705-299-11	Sequence 11, Appl	C 766	17	68.0	15977	4	US-09-608-285A-59	Sequence 59, Appl
C 694	17	68.0	3742	1	US-08-694-915-5	Sequence 5, Appl	C 767	17	68.0	17138	3	US-09-813-819-3	Sequence 3, Appl
C 695	17	68.0	3805	4	US-09-108-006C-3	Sequence 3, Appl	C 768	17	68.0	17138	3	US-09-820-048-3	Sequence 3, Appl
C 696	17	68.0	4079	4	US-09-016-434-1219	Sequence 1219, Ap	C 769	17	68.0	17949	3	US-09-087-465-3	Sequence 3, Appl
C 697	17	68.0	4326	2	US-08-852-807-12	Sequence 12, Appl	C 770	17	68.0	18000	4	US-09-657-346A-17	Sequence 17, Appl
C 698	17	68.0	4517	5	PCT-US93-06251-83	Sequence 83, Appl	C 771	17	68.0	18073	3	US-09-078-294-12	Sequence 12, Appl
C 699	17	68.0	4895	3	US-09-053-866-1	Sequence 1, Appl	C 772	17	68.0	19736	4	US-09-078-294-12	Sequence 3, Appl
C 700	17	68.0	4895	4	US-09-479-130-1	Sequence 1, Appl	C 773	17	68.0	20137	3	US-09-662-773-206	Sequence 206, App
C 701	17	68.0	4895	4	US-09-472-130A-1	Sequence 1, Appl	C 774	17	68.0	20138	3	US-09-662-773-9	Sequence 9, Appl
C 702	17	68.0	5095	1	US-08-092-817-3	Sequence 3, Appl	C 775	17	68.0	22481	4	US-08-367-841A-43	Sequence 43, Appl
C 703	17	68.0	5095	4	US-08-485-128-3	Sequence 3, Appl	C 776	17	68.0	22481	5	PCT-US95-07201-43	Sequence 43, Appl
C 704	17	68.0	5232	3	US-09-212-971-3	Sequence 3, Appl	C 777	17	68.0	22484	4	US-09-875-223-2	Sequence 2, Appl
C 705	17	68.0	5232	3	US-08-800-929A-3	Sequence 3, Appl	C 778	17	68.0	23071	3	US-09-262-773-210	Sequence 210, App
C 706	17	68.0	5232	4	US-09-617-053A-3	Sequence 3, Appl	C 779	17	68.0	23187	4	US-09-499-522-1	Sequence 1, Appl
C 707	17	68.0	5375	4	US-08-757-223-7	Sequence 7, Appl	C 780	17	68.0	24979	2	US-08-147-777-3	Sequence 3, Appl
C 708	17	68.0	5468	4	US-09-220-132-140	Sequence 140, App	C 781	17	68.0	24979	3	PCT-US93-03985-3	Sequence 3, Appl
C 709	17	68.0	5470	1	US-08-441-139-12	Sequence 13, Appl	C 782	17	68.0	24979	5	US-08-884-324-14	Sequence 14, Appl
C 710	17	68.0	5470	6	5196523-5	Patent No. 5196523	C 783	17	68.0	31208	4	US-09-852-067-3	Sequence 3, Appl
C 711	17	68.0	5543	2	US-08-687-080-101	Sequence 101, Appl	C 784	17	68.0	35060	4	US-08-814-095-7	Sequence 7, Appl
C 712	17	68.0	5590	3	US-09-050-159-129	Sequence 129, App	C 785	17	68.0	35060	3	US-09-734-675-5	Sequence 3, Appl
C 713	17	68.0	5761	4	US-09-333-472A-1	Sequence 1, Appl	C 786	17	68.0	38844	4	US-09-816-053-5	Sequence 5, Appl
C 714	17	68.0	5761	4	US-09-333-472A-3	Sequence 3, Appl	C 787	17	68.0	44453	4	US-09-801-861-3	Sequence 3, Appl
C 715	17	68.0	5761	4	US-09-333-472A-11	Sequence 11, Appl	C 788	17	68.0	53332	3	US-08-658-136-2	Sequence 2, Appl
C 716	17	68.0	5762	4	US-09-323-472A-13	Sequence 4, Appl	C 789	17	68.0	53526	3	US-08-658-136-1	Sequence 1, Appl
C 717	17	68.0	6063	2	US-08-195-744-4	Sequence 4, Appl	C 790	17	68.0	53577	4	US-09-813-817-3	Sequence 3, Appl
C 718	17	68.0	6063	2	US-08-788-279-4	Sequence 4, Appl	C 791	17	68.0	59065	4	US-09-978-197-3	Sequence 3, Appl
C 719	17	68.0	6354	3	US-09-058-389A-5	Sequence 5, Appl	C 792	17	68.0	59065	4	US-09-803-671B-3	Sequence 3, Appl
C 720	17	68.0	6354	4	US-09-611-781-5	Sequence 11, Appl	C 793	17	68.0	64467	4	US-09-754-250-3	Sequence 3, Appl
C 721	17	68.0	6405	4	US-09-281-481A-18	Sequence 18, Appl	C 794	17	68.0	111282	4	US-09-676-610B-24	Sequence 24, Appl
C 722	17	68.0	6719	4	US-09-740-235-36	Sequence 36, Appl	C 795	17	68.0	169998	4	US-09-734-674-3	Sequence 3, Appl
C 723	17	68.0	6769	1	US-08-480-784-20	Sequence 20, Appl	C 796	17	68.0	202001	4	US-09-814-095-7	Sequence 7, Appl
C 724	17	68.0	6769	1	US-08-483-553-20	Sequence 20, Appl	C 797	17	68.0	202001	1	US-09-734-674-3	Sequence 3, Appl
C 725	17	68.0	6769	1	US-08-487-002-20	Sequence 20, Appl	C 798	17	68.0	240	1	US-08-322-177A-30	Sequence 30, Appl
C 726	17	68.0	6769	1	US-08-483-554B-20	Sequence 20, Appl	C 799	17	68.0	260	4	US-09-736-457-1208	Sequence 1208, Ap
C 727	17	68.0	6769	1	US-08-488-011B-20	Sequence 20, Appl	C 800	17	68.0	260	4	US-09-736-457-1208	Sequence 110, App
C 728	17	68.0	6769	3	US-08-850-727-50	Sequence 50, Appl	C 801	17	68.0	456	4	US-09-227-357-110	Sequence 1, Appl
C 729	17	68.0	6769	5	PCT-US95-10202-20	Sequence 20, Appl	C 802	17	68.0	618	3	US-09-385-982-21	Sequence 21, Appl
C 730	17	68.0	6769	5	PCT-US95-10203-20	Sequence 20, Appl	C 803	17	68.0	629	3	US-09-385-982-204	Sequence 204, App
C 731	17	68.0	6769	5	PCT-US95-10220-20	Sequence 20, Appl	C 804	17	68.0	637	4	US-08-545-196B-23	Sequence 23, Appl
C 732	17	68.0	7210	2	US-08-257-963B-10	Sequence 10, Appl	C 805	17	68.0	949	4	US-09-247-155-148	Sequence 148, App
C 733	17	68.0	7210	4	US-08-367-841A-10	Sequence 10, Appl	C 806	17	68.0	1001	4	US-09-641-638-448	Sequence 448, App
C 734	17	68.0	7210	5	PCT-US95-07201-10	Sequence 10, Appl	C 807	17	68.0	1003	2	US-08-567-101-151	Sequence 151, App
C 735	17	68.0	7720	3	US-09-318-448-5	Sequence 5, Appl	C 808	17	68.0	1003	2	US-08-592-541-151	Sequence 151, App
C 736	17	68.0	8174	1	US-07-914-281-5	Sequence 5, Appl	C 809	17	68.0	1003	3	US-08-888-077A-14	Sequence 14, Appl
C 737	17	68.0	8174	1	US-08-393-246-5	Sequence 5, Appl	C 810	17	68.0	1003	3	US-09-124-698-151	Sequence 151, App
C 738	17	68.0	8174	1	US-08-525-058A-5	Sequence 5, Appl	C 811	17	68.0	1003	3	US-09-127-480-151	Sequence 151, App
C 739	17	68.0	8174	2	US-08-696-731-5	Sequence 5, Appl	C 812	17	68.0	1003	3	US-08-496-841C-151	Sequence 151, App
C 740	17	68.0	8174	3	US-09-042-531-5	Sequence 5, Appl	C 813	17	68.0	1003	4	US-09-124-523-151	Sequence 151, App
C 741	17	68.0	8174	5	PCT-US91-00899-3	Sequence 3, Appl	C 814	17	68.0	1574	4	US-09-636-796A-151	Sequence 151, App
C 742	17	68.0	8224	2	US-09-797-008-3	Sequence 3, Appl	C 815	17	68.0	1574	4	US-09-189-527-10	Sequence 10, Appl
C 743	17	68.0	8224	2	US-09-010-398-14	Sequence 14, Appl	C 816	17	68.0	1600	2	US-08-480-113D-117	Sequence 117, App
C 744	17	68.0	8224	3	US-09-366-260-14	Sequence 14, Appl	C 817	17	68.0	1600	2	US-08-480-113D-117	Sequence 117, App
C 745	17	68.0	8342	3	US-08-545-860D-63	Sequence 63, Appl	C 818	17	68.0	1856	1	US-08-157-171-3	Sequence 3, Appl
C 746	17	68.0	8342	5	PCT-US94-04496-63	Sequence 63, Appl	C 819	17	68.0	1856	4	US-09-050-159-128	Sequence 128, App
C 747	17	68.0	8371	1	US-08-080-255-6	Sequence 6, Appl	C 820	17	68.0	1990	4	US-09-620-312D-442	Sequence 442, App
C 748	17	68.0	8392	1	US-09-065-027-1	Sequence 6, Appl	C 821	17	68.0	2203	4	US-09-801-861-1	Sequence 1, Appl
C 749	17	68.0	8392	3	US-08-465-713-6	Sequence 6, Appl	C 822	17	68.0	2265	4	US-09-820-312D-582	Sequence 582, App
C 750	17	68.0	8392	5	PCT-US93-05857-6	Sequence 6, Appl	C 823	17	68.0	2447	3	US-08-387-707-12	Sequence 12, Appl
C 751	17	68.0	8835	3	US-08-884-324-10	Sequence 10, Appl	C 824	17	68.0	2447	4	US-08-405-277A-12	Sequence 12, Appl
C 752	17	68.0	9365	4	US-09-608-285A-8	Sequence 8, Appl	C 825	17	68.0	2588	4	US-09-026-033-18	Sequence 18, Appl
C 753	17	68.0	9365	4	US-09-350-836B-8	Sequence 8, Appl	C 826	17	68.0	2813	4	US-09-689-255C-3	Sequence 3, Appl
C 754	17	68.0	9365	4	US-09-370-265-8	Sequence 8, Appl	C 827	17	68.0	2886	2	US-08-687-080-55	Sequence 55, Appl
C 755	17	68.0	9365	4	US-09-557-800C-8	Sequence 8, Appl	C 828	17	68.0	2896	2	US-08-709-923-1	Sequence 1, Appl
C 756	17	68.0	9704	4	US-09-814-951A-3	Sequence 3, Appl	C 829	17	68.0	3319	3	US-08-479-473B-2	Sequence 2, Appl
C 757	17	68.0	10684	3	US-08-618-100B-3	Sequence 3, Appl	C 830	17	68.0	3319	4	US-09-439-856-2	Sequence 2, Appl

C 831	16	64.0	3441	4	US-09-026-033-17	Sequence 17, Appl1	904	15	60.0	10825	3	US-09-503-444A-1	Sequence 1, Appl1
C 832	16	64.0	4192	4	US-09-122-126B-1	Sequence 1, Appl1	905	15	60.0	10825	3	US-09-503-444A-3	Sequence 3, Appl1
C 833	16	64.0	4192	4	US-09-634-286A-1	Sequence 1, Appl1	906	15	60.0	10825	3	US-09-503-444A-5	Sequence 5, Appl1
C 834	16	64.0	4576	1	US-08-832-883-49	Sequence 49, Appl1	907	15	60.0	10825	3	US-09-503-444A-7	Sequence 7, Appl1
C 835	16	64.0	4576	2	US-08-832-877-49	Sequence 49, Appl1	908	15	60.0	12146	4	US-09-277-457-27	Sequence 27, Appl1
C 836	16	64.0	4638	4	US-09-439-261-34	Sequence 34, Appl1	909	15	60.0	12146	4	US-09-679-729-27	Sequence 27, Appl1
C 837	16	64.0	4638	4	US-09-227-613-33	Sequence 33, Appl1	910	15	60.0	14753	4	US-08-821-736-3	Sequence 3, Appl1
C 838	16	64.0	6987	4	US-09-026-033-3	Sequence 3, Appl1	911	15	60.0	14753	4	US-08-076-011-1	Sequence 1, Appl1
C 839	16	64.0	6990	4	US-09-026-033-23	Sequence 23, Appl1	912	15	60.0	20598	4	US-09-593-999-10	Sequence 10, Appl1
C 840	16	64.0	8133	4	US-09-659-791A-10	Sequence 10, Appl1	913	15	60.0	20674	4	US-09-641-638-651	Sequence 651, App
C 841	16	64.0	8133	4	US-09-659-791A-10	Sequence 10, Appl1	914	15	56.0	20	4	US-09-060-299-286	Sequence 286, App
C 842	16	64.0	9704	4	US-09-814-951A-3	Sequence 3, Appl1	915	14	56.0	20	4	US-09-402-922A-286	Sequence 286, App
C 843	16	64.0	10380	3	US-09-077-354B-3	Sequence 3, Appl1	916	14	56.0	22	4	US-09-918-686-88	Sequence 88, Appl1
C 844	16	64.0	10642	4	US-09-934-551-3	Sequence 3, Appl1	917	14	56.0	29	4	US-09-304-233-862	Sequence 862, App
C 845	16	64.0	12394	4	US-09-488-856A-10	Sequence 10, Appl1	918	14	56.0	37	3	US-09-056-762-9	Sequence 9, Appl1
C 846	16	64.0	12482	4	US-09-512-563C-25	Sequence 25, Appl1	919	14	56.0	40	4	US-09-060-299-287	Sequence 287, App
C 847	16	64.0	12597	4	US-09-705-299-12	Sequence 12, Appl1	920	14	56.0	40	4	US-09-402-922A-287	Sequence 287, App
C 848	16	64.0	13104	3	US-08-256-799-4	Sequence 4, Appl1	921	14	56.0	60	2	US-08-454-557C-66	Sequence 66, Appl1
C 849	16	64.0	13104	3	US-08-462-437-4	Sequence 4, Appl1	922	14	56.0	60	2	US-08-340-428D-66	Sequence 66, Appl1
C 850	16	64.0	13205	4	US-09-835-811-3	Sequence 3, Appl1	923	14	56.0	60	2	US-08-450-673C-66	Sequence 66, Appl1
C 851	16	64.0	13865	3	US-09-009-217-11	Sequence 11, Appl1	924	14	56.0	60	5	PCT-US95-17111A-66	Sequence 66, Appl1
C 852	16	64.0	13865	3	US-09-009-656-11	Sequence 11, Appl1	925	14	56.0	73	3	US-09-056-762-8	Sequence 8, Appl1
C 853	16	64.0	14581	4	US-08-520-373D-4	Sequence 4, Appl1	926	14	56.0	75	3	US-09-056-762-7	Sequence 7, Appl1
C 854	16	64.0	15297	4	US-09-817-180-3	Sequence 3, Appl1	927	14	56.0	112	2	US-08-454-557C-27	Sequence 27, Appl1
C 855	16	64.0	15602	4	US-09-844-634-17	Sequence 17, Appl1	928	14	56.0	112	2	US-08-340-428D-27	Sequence 27, Appl1
C 856	16	64.0	20966	4	US-09-984-880-3	Sequence 3, Appl1	929	14	56.0	112	2	US-08-450-673C-27	Sequence 27, Appl1
C 857	16	64.0	42571	4	US-09-810-347-3	Sequence 3, Appl1	930	14	56.0	112	5	PCT-US95-17111A-27	Sequence 27, Appl1
C 858	16	64.0	72928	3	US-09-009-913-1	Sequence 1, Appl1	931	14	56.0	149	2	US-08-454-557C-89	Sequence 89, Appl1
C 859	15	60.0	20	4	US-09-137-223A-14	Sequence 14, Appl1	932	14	56.0	149	2	US-08-340-428D-89	Sequence 89, Appl1
C 860	15	60.0	53	1	US-08-303-004-8	Sequence 8, Appl1	933	14	56.0	149	2	US-08-450-673C-89	Sequence 89, Appl1
C 861	15	60.0	59	2	US-08-454-557C-65	Sequence 65, Appl1	934	14	56.0	257	5	PCT-US95-17111A-89	Sequence 89, Appl1
C 862	15	60.0	59	2	US-08-340-426D-65	Sequence 65, Appl1	935	14	56.0	257	1	US-08-741-406-3	Sequence 3, Appl1
C 863	15	60.0	59	2	US-08-450-673C-65	Sequence 65, Appl1	936	14	56.0	257	3	US-09-024-427-3	Sequence 3, Appl1
C 864	15	60.0	59	5	PCT-US95-17111A-65	Sequence 65, Appl1	937	14	56.0	264	1	US-08-222-177A-10	Sequence 10, Appl1
C 865	15	60.0	120	2	US-08-454-557C-28	Sequence 28, Appl1	938	14	56.0	330	3	US-09-157-177-114	Sequence 114, App
C 866	15	60.0	120	2	US-08-340-426D-28	Sequence 28, Appl1	939	14	56.0	372	3	US-09-018-584A-33	Sequence 33, Appl1
C 867	15	60.0	120	2	US-08-450-673C-28	Sequence 28, Appl1	940	14	56.0	377	2	US-08-454-557C-37	Sequence 37, Appl1
C 868	15	60.0	120	5	PCT-US95-17111A-28	Sequence 28, Appl1	941	14	56.0	377	2	US-08-340-426D-37	Sequence 37, Appl1
C 869	15	60.0	167	2	US-08-454-557C-90	Sequence 90, Appl1	942	14	56.0	377	2	US-08-450-673C-37	Sequence 37, Appl1
C 870	15	60.0	167	2	US-08-340-426D-90	Sequence 90, Appl1	943	14	56.0	377	5	PCT-US95-17111A-37	Sequence 37, Appl1
C 871	15	60.0	167	2	US-08-450-673C-90	Sequence 90, Appl1	944	14	56.0	380	1	US-08-126-587C-5	Sequence 5, Appl1
C 872	15	60.0	167	5	PCT-US95-17111A-90	Sequence 90, Appl1	945	14	56.0	410	3	US-09-221-299-63	Sequence 63, Appl1
C 873	15	60.0	241	2	US-08-849-801-10	Sequence 10, Appl1	946	14	56.0	418	4	US-09-490-818-5	Sequence 5, Appl1
C 874	15	60.0	712	1	US-08-410-804-4	Sequence 4, Appl1	947	14	56.0	419	4	US-09-118-554-13	Sequence 13, Appl1
C 875	15	60.0	712	1	US-08-259-511-4	Sequence 4, Appl1	948	14	56.0	419	4	US-09-118-627-13	Sequence 13, Appl1
C 876	15	60.0	712	2	US-08-858-311-4	Sequence 4, Appl1	949	14	56.0	419	4	US-09-602-877A-13	Sequence 13, Appl1
C 877	15	60.0	856	4	US-09-288-143-47	Sequence 47, Appl1	950	14	56.0	423	3	US-08-943-731-131	Sequence 131, App
C 878	15	60.0	1001	4	US-09-641-638-629	Sequence 629, App	951	14	56.0	427	4	US-08-579-445-25	Sequence 25, Appl1
C 879	15	60.0	1001	4	US-09-641-638-630	Sequence 630, App	952	14	56.0	434	2	US-08-332-766A-10	Sequence 10, Appl1
C 880	15	60.0	1001	4	US-09-671-317-43	Sequence 43, Appl1	953	14	56.0	462	3	US-09-328-111-79	Sequence 79, Appl1
C 881	15	60.0	1001	4	US-09-671-317-44	Sequence 44, Appl1	954	14	56.0	489	4	US-09-370-838-109	Sequence 109, App
C 882	15	60.0	1037	4	US-09-257-179-16	Sequence 16, Appl1	955	14	56.0	498	3	US-09-078-294-29	Sequence 29, Appl1
C 883	15	60.0	2867	4	US-09-402-532-38	Sequence 38, Appl1	956	14	56.0	531	4	US-09-404-878A-24	Sequence 24, Appl1
C 884	15	60.0	2907	2	US-09-018-628-17	Sequence 17, Appl1	957	14	56.0	531	4	US-09-338-933-24	Sequence 24, Appl1
C 885	15	60.0	2907	3	US-09-273-378-17	Sequence 17, Appl1	958	14	56.0	531	4	US-09-215-681-24	Sequence 24, Appl1
C 886	15	60.0	2907	3	US-09-018-635-26	Sequence 26, Appl1	959	14	56.0	542	3	US-09-461-697-136	Sequence 136, App
C 887	15	60.0	2907	4	US-09-467-642-3	Sequence 3, Appl1	960	14	56.0	548	4	US-09-495-050A-81	Sequence 81, Appl1
C 888	15	60.0	2982	4	US-09-312-862-26	Sequence 26, Appl1	961	14	56.0	565	3	US-09-328-111-267	Sequence 267, App
C 889	15	60.0	3018	4	US-09-620-312D-307	Sequence 307, App	962	14	56.0	569	3	US-08-943-731-144	Sequence 144, App
C 890	15	60.0	3018	4	US-09-205-258-220	Sequence 220, App	963	14	56.0	586	3	US-08-906-156A-20	Sequence 20, Appl1
C 891	15	60.0	5761	1	US-07-749-001-2	Sequence 2, Appl1	964	14	56.0	587	3	US-08-906-156A-68	Sequence 68, Appl1
C 892	15	60.0	5761	1	US-08-154-198-2	Sequence 2, Appl1	965	14	56.0	591	3	US-09-385-982-406	Sequence 406, App
C 893	15	60.0	5761	1	US-08-463-335-2	Sequence 2, Appl1	966	14	56.0	611	4	US-09-440-235-8	Sequence 8, Appl1
C 894	15	60.0	5761	2	US-08-464-023A-2	Sequence 2, Appl1	967	14	56.0	611	4	US-09-495-050A-226	Sequence 226, App
C 895	15	60.0	8779	2	US-08-750-703-4	Sequence 4, Appl1	968	14	56.0	611	4	US-09-495-050A-227	Sequence 227, App
C 896	15	60.0	10825	3	US-08-652-465-1	Sequence 1, Appl1	969	14	56.0	624	4	US-09-495-050A-230	Sequence 230, App
C 897	15	60.0	10825	3	US-08-652-465-3	Sequence 3, Appl1	970	14	56.0	652	3	US-09-328-111-717	Sequence 717, App
C 898	15	60.0	10825	3	US-08-652-265-5	Sequence 5, Appl1	971	14	56.0	665	3	US-08-896-164-43	Sequence 43, Appl1
C 899	15	60.0	10825	3	US-08-652-265-7	Sequence 7, Appl1	972	14	56.0	683	4	US-08-896-164-41	Sequence 41, Appl1
C 900	15	60.0	10825	3	US-08-634-497A-1	Sequence 1, Appl1	973	14	56.0	700	3	US-09-740-235-19	Sequence 19, Appl1
C 901	15	60.0	10825	3	US-08-634-497A-3	Sequence 3, Appl1	974	14	56.0	700	3	US-08-991-789A-174	Sequence 174, App
C 902	15	60.0	10825	3	US-08-634-497A-5	Sequence 5, Appl1	975	14	56.0	700	4	US-09-062-451-174	Sequence 174, App
C 903	15	60.0	10825	3	US-08-634-497A-7	Sequence 7, Appl1	976	14	56.0	700	4	US-09-598-326-174	Sequence 174, App

977 14 56.0 700 4 US-09-289-198-174 Sequence 174, App
 978 14 56.0 705 4 US-09-328-475C-262 Sequence 262, App
 979 14 721 4 US-09-205-258-205 Sequence 205, App
 980 14 56.0 738 4 US-09-662-250A-23 Sequence 273, App
 981 14 56.0 742 4 US-09-495-050A-273 Sequence 273, App
 982 14 56.0 782 4 US-09-328-475C-144 Sequence 144, App
 983 14 56.0 788 4 US-09-288-143-27 Sequence 27, App
 984 14 56.0 830 4 US-09-495-050A-80 Sequence 80, App
 985 14 56.0 849 4 US-09-227-357-72 Sequence 72, App
 986 14 56.0 888 4 US-09-252-991A-14356 Sequence 14356, A
 987 14 56.0 951 4 US-09-328-475C-15 Sequence 15, App
 988 14 56.0 955 4 US-09-641-638-22 Sequence 22, App
 989 14 56.0 956 4 US-09-641-638-35 Sequence 35, App
 990 14 56.0 956 4 US-09-641-638-56 Sequence 56, App
 991 14 56.0 999 4 US-09-641-638-290 Sequence 290, App
 992 14 56.0 1000 2 US-08-718-538-1 Sequence 1, App
 993 14 56.0 1000 3 US-09-018-584A-33 Sequence 33, App
 994 14 56.0 1001 4 US-09-641-638-175 Sequence 175, App
 995 14 56.0 1001 4 US-09-641-638-208 Sequence 208, App
 996 14 56.0 1001 4 US-09-641-638-521 Sequence 521, App
 997 14 56.0 1001 4 US-09-641-638-526 Sequence 526, App
 998 14 56.0 1001 4 US-09-671-317-154 Sequence 154, App
 999 14 56.0 1001 4 US-09-671-317-170 Sequence 170, App
 1000 14 56.0 1001 4 US-09-671-317-184 Sequence 184, App

ALIGNMENTS

RESULT 1
 US-09-018-584A-124
 ; Sequence 124, Application US/09018584A

Patent No. 6238863
 GENERAL INFORMATION:
 APPLICANT: Schumm, James W.
 TITLE OF INVENTION: MATERIALS AND METHODS FOR
 IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM
 REPEAT DNA MARKERS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Promega Corporation
 STREET: 2800 Woods Hollow Road
 CITY: Madison
 STATE: Wisconsin
 COUNTRY: U.S.A.
 ZIP: 53711-5399
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb
 COMPUTER: IBM compatible PC
 OPERATING SYSTEM: Windows 95
 SOFTWARE: Word 97 (DOS text format)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/018,584A
 FILING DATE: 04-Feb-1998
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
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 REGISTRATION NUMBER: 29,018
 REFERENCE/DOCKET NUMBER: 16026.9180
 TELECOMMUNICATION INFORMATION:
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 INFORMATION FOR SEQ ID NO: 124:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 25
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 US-09-018-584A-124

Query Match 100.0%; Score 25; DB 3; Length 25;
 Best Local Similarity 100.0%; Pred. No. 5.7e-06;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 GGTTCAGTGCAGCCGAGTAAGAGT 25
 Db 1 GGTTCAGTGCAGCCGAGTAAGAGT 25

RESULT 2
 US-09-018-584A-32
 ; Sequence 32, Application US/09018584A
 Patent No. 6238863
 GENERAL INFORMATION:
 APPLICANT: Schumm, James W.
 TITLE OF INVENTION: MATERIALS AND METHODS FOR
 IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM
 REPEAT DNA MARKERS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Promega Corporation
 STREET: 2800 Woods Hollow Road
 CITY: Madison
 STATE: Wisconsin
 COUNTRY: U.S.A.
 ZIP: 53711-5399
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb
 COMPUTER: IBM compatible PC
 OPERATING SYSTEM: Windows 95
 SOFTWARE: Word 97 (DOS text format)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/018,584A
 FILING DATE: 04-Feb-1998
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Grady J. Frenchick
 REGISTRATION NUMBER: 29,018
 REFERENCE/DOCKET NUMBER: 16026.9180
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (608) 257-3501
 TELEFAX: (608) 257-2275
 INFORMATION FOR SEQ ID NO: 32:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1000 bp
 TYPE: Nucleic Acid
 STRANDEDNESS: Double
 TOPOLOGY: Circular
 MOLECULE TYPE: Genomic DNA
 HYPOTHETICAL: no
 IMMEDIATE SOURCE:
 CLONE: S132
 POSITION IN GENOME:
 CHROMOSOME/SEGMENT: 22
 US-09-018-584A-32

Query Match 100.0%; Score 25; DB 3; Length 1000;
 Best Local Similarity 100.0%; Pred. No. 5.6e-06;
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGTTCAGTGCAGCCGAGTAAGAGT 25
 Db 441 GGTTCAGTGCAGCCGAGTAAGAGT 465

RESULT 3
 US-09-288-143-57
 ; Sequence 57, Application US/09288143
 Patent No. 6433139
 GENERAL INFORMATION:
 APPLICANT: Brewer et al.
 TITLE OF INVENTION: 53 Human Secreted Proteins
 FILE REFERENCE: P2018P
 CURRENT APPLICATION NUMBER: US/09/288,143

CURRENT FILING DATE: 1999-04-08
EARLIER APPLICATION NUMBER: PCT/US98/21142
EARLIER FILING DATE: 1998-10-08
EARLIER APPLICATION NUMBER: 60/061,463
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/061,529
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/071,498
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/061,527
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/061,536
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/061,532
EARLIER FILING DATE: 1997-10-09
NUMBER OF SEQ ID NOS: 219
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 57
LENGTH: 764
TYPE: DNA
ORGANISM: Homo sapiens
US-09-288-143-57

Query Match 80.0%; Score 20; DB 4; Length 764;
Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGGCCGAGATA 20
DB 674 GGTTCAGTGGCCGAGATA 693

RESULT 4
US-08-683-743-3
Sequence 3, Application US/08683743
Patent No. 5843697
GENERAL INFORMATION:
APPLICANT: Peatka, Sidney
APPLICANT: Kocenko, Sergei
TITLE OF INVENTION: CYTOKINE RECEPTOR SIGNAL TRANSDUCTION
TITLE OF INVENTION: CHAIN
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
STREET: Floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/683,743
FILING DATE: 17-JUL-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 601-1-050
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1875 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA

HYPOTHETICAL: NO
US-08-683-743-3

Query Match 80.0%; Score 20; DB 2; Length 1875;
Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGGCCGAGATA 20
DB 1551 GGTTCAGTGGCCGAGATA 1570

RESULT 5
US-08-406-030A-17
Sequence 17, Application US/08406030A
Patent No. 6270989
GENERAL INFORMATION:
APPLICANT: Treco, Douglas A.
APPLICANT: Heartlein, Michael W.
APPLICANT: Haug, Brian M.
APPLICANT: Seiden, Richard F.
TITLE OF INVENTION: Protein Production and Delivery
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brock, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/406,030A
FILING DATE: 17-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/243,391
FILING DATE: 13-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/985,586
FILING DATE: 03-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/911,533
FILING DATE: 10-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/787,840
FILING DATE: 05-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/789,188
FILING DATE: 05-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/11704
FILING DATE: 02-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/09627
FILING DATE: 05-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TKT95-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 4042 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)
US-08-406-030A-17

Query Match 80.0%; Score 20; DB 3; Length 4042;
Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGTTCAGTGAGCCGAGATA 20
Db 2894 GGTTCAGTGAGCCGAGATA 2913

RESULT 6

US-08-370-319C-12
Sequence 12, Application US/08370319C
Patent No. 5856091
GENERAL INFORMATION:
APPLICANT: Brichard, Vincent; Van Pel, Aline;
APPLICANT: Traversari, Catia; W lfel, Thomas; Coulle, Pierre;
APPLICANT: Boon-Falleur, Thierry; De Plaen, Etienne
TITLE OF INVENTION: ISOLATED NUCLEIC ACID SEQUENCE CODING FOR A
TITLE OF INVENTION: TUMOR REJECTION ANTIGEN PERCURSOR PROCESSED TO AT LEAST ONE TU
TITLE OF INVENTION: REJECTION ANTIGEN PRESENTED BY HLA-A2
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/370,319C
FILING DATE: 10-JANUARY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/272,351
FILING DATE: 8-JULY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/032,978
FILING DATE: 18-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 5856091man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5377.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 4129 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
OTHER INFORMATION: The sequence is preceded by an
OTHER INFORMATION: unsequenced portion of from 4.7 to 5.3
OTHER INFORMATION: kilobases
US-08-370-319C-12

Query Match 80.0%; Score 20; DB 2; Length 4129;
Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGTTCAGTGAGCCGAGATA 20
Db 3066 GGTTCAGTGAGCCGAGATA 3085

RESULT 7

US-09-224-834-12
Sequence 12, Application US/09224834
Patent No. 6201111
GENERAL INFORMATION:
APPLICANT: Brichard, Vincent; Van Pel, Aline;
APPLICANT: Traversari, Catia; W lfel, Thomas; Coulle, Pierre;
APPLICANT: Boon-Falleur, Thierry; De Plaen, Etienne
TITLE OF INVENTION: ISOLATED NUCLEIC ACID SEQUENCE CODING FOR A
TITLE OF INVENTION: TUMOR REJECTION ANTIGEN PERCURSOR PROCESSED TO AT LEAST ONE TU
TITLE OF INVENTION: REJECTION ANTIGEN PRESENTED BY HLA-A2
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/224,834
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/370,319
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/032,978
FILING DATE: 18-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 620111man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5377.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 4129 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
OTHER INFORMATION: The sequence is preceded by an
OTHER INFORMATION: unsequenced portion of from 4.7 to 5.3
OTHER INFORMATION: kilobases
US-09-224-834-12

Query Match 80.0%; Score 20; DB 3; Length 4129;
Best Local Similarity 100.0%; Pred. No. 0.0045;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGTTCAGTGAGCCGAGATA 20
Db 3066 GGTTCAGTGAGCCGAGATA 3085

RESULT 8

US-08-965-048-5
Sequence 5, Application US/08965048
Patent No. 6323244
GENERAL INFORMATION:
APPLICANT: Chen, Hong
APPLICANT: Freimer, Nelson
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND
TITLE OF INVENTION: TREATMENT OF NEUROPSYCHIATRIC DISORDERS
FILE REFERENCE: 7853-093

CURRENT APPLICATION NUMBER: US/08/965,048
CURRENT FILING DATE: 1997-11-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 45716
TYPE: DNA
ORGANISM: Homo sapiens
US-08-965-048-5

Query Match 80.0%; Score 20; DB 4; Length 45716;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGTTCAGTGTAGCCGAGATA 20
DB 33531 GGTTCAGTGTAGCCGAGATA 33550

RESULT 9

US-08-965-048-6
Sequence 6, Application US/08965048
Patent No. 6323244
GENERAL INFORMATION:
APPLICANT: Chen, Hong
APPLICANT: Freimer, Nelson
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND
TITILE OF INVENTION: TREATMENT OF NEUROPSYCHIATRIC DISORDERS
FILE REFERENCE: 7853-093
CURRENT APPLICATION NUMBER: US/08/965,048
CURRENT FILING DATE: 1997-11-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 45989
TYPE: DNA
ORGANISM: Homo sapiens
US-08-965-048-6

Query Match 80.0%; Score 20; DB 4; Length 45989;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGTTCAGTGTAGCCGAGATA 20
DB 33645 GGTTCAGTGTAGCCGAGATA 33664

RESULT 10

US-08-133-629-2
Sequence 2, Application US/08133629
Patent No. 5597694
GENERAL INFORMATION:
APPLICANT: Munroe, David J.
APPLICANT: Housman, David E.
TITLE OF INVENTION: AMPLIFICATION OF NUCLEIC ACIDS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: United States of America
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/133,629
FILING DATE: 07-OCT-1993
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Greer, Helen
REGISTRATION NUMBER: 36,916
REFERENCE/DOCKET NUMBER: M0828/7001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-720-3500
TELEFAX: 617-720-2441

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-133-629-2

Query Match 76.0%; Score 19; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGTTCAGTGTAGCCGAGAT 19
DB 3 GGTTCAGTGTAGCCGAGAT 21

RESULT 11

US-08-687-080-93/C
Sequence 93, Application US/08687080
Patent No. 5965427
GENERAL INFORMATION:
APPLICANT: Gregory Dolganov
TITLE OF INVENTION: Human RAD50 Gene and Methods of Use Thereof
NUMBER OF SEQUENCES: 175
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/687,080
FILING DATE: 17-JUL-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/592,126
FILING DATE: 26-JAN-1996

ATTORNEY/AGENT INFORMATION:
NAME: Sholtz, Charles K.
REGISTRATION NUMBER: 38,615
REFERENCE/DOCKET NUMBER: 4600-0111.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 93:
SEQUENCE CHARACTERISTICS:
LENGTH: 239 base pairs
TYPE: nucleic acid
STRANDEDNESS: double

TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: 5' END OF INTRON 16 OF RAD50 GENOMIC
US-08-687-080-93

Query Match 76.0%; Score 19; DB 2; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGTAGCCGAGAT 19
|||||
Db 128 GGTTCAGTGTAGCCGAGAT 110

RESULT 12
US-08-849-701-1
Sequence 1, Application US/08849701
Patent No. 5922544

GENERAL INFORMATION:
APPLICANT: Miyai, Kiyoshi
APPLICANT: Naichou, Tetsumu
APPLICANT: Yonekawa, Toshihiro
TITLE OF INVENTION: Method of Cell Detection
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe, Martens, Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: CA
COUNTRY: U.S.A.
ZIP: 92660

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

OPERATING SYSTEM: IBM Compatible

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/849,701

FILING DATE:
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP95/02734

FILING DATE: 27-DEC-1995

ATTORNEY/AGENT INFORMATION:
NAME: Altman, Daniel E

REGISTRATION NUMBER: 34,115

REFERENCE/DOCKET NUMBER: EIKEN1.001APC

TELECOMMUNICATION INFORMATION:
TELEPHONE: 714-760-0404

TELEFAX: 714-760-9502

TELEX:
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 265 base pairs

TYPE: nucleic acid
STRANDEDNESS: double

TOPOLOGY: linear
MOLECULE TYPE: Other

IMMEDIATE SOURCE:
CLONE: A10 sequence BLUR8

US-08-849-701-1

Query Match 76.0%; Score 19; DB 2; Length 265;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGTAGCCGAGAT 19
|||||
Db 194 GGTTCAGTGTAGCCGAGAT 212

RESULT 13
US-08-579-445-26
Sequence 26, Application US/08579445
Patent No. 6566053
GENERAL INFORMATION:
APPLICANT: Petrucho, Manuel
APPLICANT: Peinado, Miguel A.

APPLICANT: Ionov, Yuri
APPLICANT: Malkhosyan, Sergei
TITLE OF INVENTION: Identification of Neoplasms by Detection
of Genetic Deletions
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe, Martens, Olson & Bear
STREET: 620 Newport Center Drive, Sixteenth Floor
CITY: Newport Beach
STATE: CA
COUNTRY: U.S.A.
ZIP: 92660

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/579,445

FILING DATE:
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,484

FILING DATE:
ATTORNEY/AGENT INFORMATION:

NAME: Kirkpatrick, Anita M.
REGISTRATION NUMBER: 32,617

REFERENCE/DOCKET NUMBER: STRATAG.009A

TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550

TELEFAX: (619) 235-0176

INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:

LENGTH: 283 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-579-445-26

Query Match 76.0%; Score 19; DB 4; Length 283;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGTAGCCGAGAT 19
|||||
Db 218 GGTTCAGTGTAGCCGAGAT 236

RESULT 14
US-08-481-658B-61/C
Sequence 61, Application US/08481658B

Patent No. 5955075
GENERAL INFORMATION:

APPLICANT: Zavada, Jan

APPLICANT: Pastorekova, Silvia

APPLICANT: Pastorek, Jaromir

TITLE OF INVENTION: MN Gene and Protein

NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:

ADDRESSEE: Leona L. Lauder

STREET: 6 Mariposa Court

CITY: Tiburon

STATE: California

COUNTRY: USA
ZIP: 94920

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,658B
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3E
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-481-658B-61

Query Match 76.0%; Score 19; DB 2; Length 294;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTGCAGTGAGCCGAGAT 19
DB 75 GGTTGCAGTGAGCCGAGAT 57

RESULT 15
US-08-477-504A-61/C
Sequence 61, Application US/08477504A
Patent No. 5972353
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 6 Mariposa Court
CITY: Tiburon
STATE: California
COUNTRY: USA
ZIP: 94920
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,504A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,190
FILING DATE: 15-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.3D
TELEPHONE: 415-435-2034
TELEFAX: 415-435-0727
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-477-504A-61

Query Match 76.0%; Score 19; DB 2; Length 294;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTGCAGTGAGCCGAGAT 19
DB 75 GGTTGCAGTGAGCCGAGAT 57

Search completed: October 9, 2003, 16:05:27
Job time: 17.4762 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 9, 2003, 15:58:38 ; Search time 8.2381 Seconds
(without alignments)
7874.427 Million cell updates/sec

Title: US-09-784-423-124

Perfect score: 25

Sequence: 1 GCTTGCAGTGCAGCCGAGATAGAGT 25

Scoring table: OLIGO NUC
Gapex 60.0 , Gapext 60.0

Searched: 1731049 seqs, 1297405648 residues

Word size : 0

Total number of hits satisfying chosen parameters: 3462098

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 1000 summaries

Database :

Published Applications NA.*
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11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
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13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
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17: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	25	100.0	25	US-09-784-423-124	Sequence 124, App
2	25	100.0	9	US-09-784-423-32	Sequence 32, App
3	21	84.0	611	US-10-027-632-256	Sequence 256, App
4	21	84.0	619	US-10-027-632-76653	Sequence 76653, A
5	21	84.0	619	US-10-027-632-76654	Sequence 76654, A
6	21	84.0	619	US-10-027-632-109145	Sequence 109145, A
7	21	84.0	619	US-10-027-632-109146	Sequence 109146, A
8	21	84.0	619	US-10-027-632-41282	Sequence 41282, A
9	21	84.0	619	US-10-027-632-41283	Sequence 41283, A
10	21	84.0	619	US-10-027-632-128887	Sequence 128887, A
11	21	84.0	619	US-10-027-632-166508	Sequence 166508, A
12	21	84.0	2339	US-10-027-632-102290	Sequence 102290, A
13	21	84.0	2339	US-10-027-632-102291	Sequence 102291, A
14	21	84.0	19286	US-09-764-891-5690	Sequence 5690, App
15	21	84.0	240825	US-09-790-289-1	Sequence 1, App1
16	20	80.0	357	US-10-027-632-138166	Sequence 138166, A

C 17	20	80.0	384	10	US-09-867-701-2157	Sequence 2157, App
C 18	20	80.0	414	11	US-09-918-995-8428	Sequence 8428, App
C 19	20	80.0	431	12	US-10-082-828A-148	Sequence 148, App
C 20	20	80.0	470	13	US-10-027-632-66429	Sequence 66429, A
C 21	20	80.0	434	11	US-09-918-995-26090	Sequence 26090, A
C 22	20	80.0	508	11	US-10-027-632-81667	Sequence 81667, A
C 23	20	80.0	508	13	US-10-027-632-91668	Sequence 91668, A
C 24	20	80.0	537	13	US-10-027-632-291649	Sequence 291649, A
C 25	20	80.0	546	13	US-10-027-632-281502	Sequence 281502, A
C 26	20	80.0	546	13	US-10-027-632-286646	Sequence 286646, A
C 27	20	80.0	546	13	US-10-027-632-286647	Sequence 286647, A
C 28	20	80.0	562	13	US-10-027-632-35694	Sequence 35694, A
C 29	20	80.0	562	13	US-10-027-632-35695	Sequence 35695, A
C 30	20	80.0	570	11	US-09-918-995-14524	Sequence 14524, A
C 31	20	80.0	572	13	US-10-027-632-223962	Sequence 223962, A
C 32	20	80.0	580	13	US-10-027-632-98463	Sequence 98463, A
C 33	20	80.0	585	13	US-10-027-632-193749	Sequence 193749, A
C 34	20	80.0	585	13	US-10-027-632-193750	Sequence 193750, A
C 35	20	80.0	600	13	US-10-027-632-93684	Sequence 93684, A
C 36	20	80.0	600	13	US-10-027-632-93685	Sequence 93685, A
C 37	20	80.0	600	13	US-10-027-632-93686	Sequence 93686, A
C 38	20	80.0	600	13	US-10-027-632-93687	Sequence 93687, A
C 39	20	80.0	607	13	US-10-027-632-82147	Sequence 82147, A
C 40	20	80.0	607	13	US-10-027-632-82148	Sequence 82148, A
C 41	20	80.0	607	13	US-10-027-632-82149	Sequence 82149, A
C 42	20	80.0	611	13	US-10-027-632-215931	Sequence 215931, A
C 43	20	80.0	611	13	US-10-027-632-308467	Sequence 308467, A
C 44	20	80.0	618	13	US-10-027-632-283381	Sequence 283381, A
C 45	20	80.0	624	13	US-10-027-632-208850	Sequence 208850, A
C 46	20	80.0	625	13	US-10-027-632-142954	Sequence 142954, A
C 47	20	80.0	625	13	US-10-027-632-142955	Sequence 142955, A
C 48	20	80.0	628	13	US-10-027-632-268899	Sequence 268899, A
C 49	20	80.0	637	13	US-10-027-632-179752	Sequence 179752, A
C 50	20	80.0	637	13	US-10-027-632-179753	Sequence 179753, A
C 51	20	80.0	637	13	US-10-027-632-179754	Sequence 179754, A
C 52	20	80.0	637	13	US-10-027-632-179755	Sequence 179755, A
C 53	20	80.0	637	13	US-10-027-632-311163	Sequence 311163, A
C 54	20	80.0	637	14	US-10-106-698-450	Sequence 450, App
C 55	20	80.0	663	11	US-09-764-891-9767	Sequence 9767, App
C 56	20	80.0	663	11	US-09-764-891-9768	Sequence 9768, App
C 57	20	80.0	684	13	US-10-027-632-27891	Sequence 27891, A
C 58	20	80.0	716	13	US-10-027-632-110591	Sequence 110591, A
C 59	20	80.0	718	12	US-10-076-747-12	Sequence 12, App1
C 60	20	80.0	728	13	US-10-027-632-33222	Sequence 33222, A
C 61	20	80.0	733	13	US-10-027-632-127047	Sequence 127047, A
C 62	20	80.0	764	14	US-10-150-111-57	Sequence 57, App1
C 63	20	80.0	778	13	US-10-027-632-17972	Sequence 17972, A
C 64	20	80.0	788	13	US-10-027-632-19006	Sequence 19006, A
C 65	20	80.0	801	13	US-10-027-632-136807	Sequence 136807, A
C 66	20	80.0	806	13	US-10-027-632-101452	Sequence 101452, A
C 67	20	80.0	807	13	US-10-027-632-158717	Sequence 158717, A
C 68	20	80.0	807	13	US-10-027-632-162729	Sequence 162729, A
C 69	20	80.0	807	13	US-10-027-632-162730	Sequence 162730, A
C 70	20	80.0	831	13	US-10-027-632-127046	Sequence 127046, A
C 71	20	80.0	833	13	US-10-027-632-160754	Sequence 160754, A
C 72	20	80.0	833	13	US-10-027-632-160755	Sequence 160755, A
C 73	20	80.0	856	13	US-10-027-632-162052	Sequence 162052, A
C 74	20	80.0	856	13	US-10-027-632-162053	Sequence 162053, A
C 75	20	80.0	918	13	US-10-027-632-158123	Sequence 158123, A
C 76	20	80.0	982	13	US-10-027-632-119857	Sequence 119857, A
C 77	20	80.0	1111	13	US-10-027-632-116649	Sequence 116649, A
C 78	20	80.0	1111	13	US-10-027-632-116650	Sequence 116650, A
C 79	20	80.0	1178	13	US-10-027-632-251851	Sequence 251851, A
C 80	20	80.0	1203	13	US-10-027-632-123393	Sequence 123393, A
C 81	20	80.0	1203	13	US-10-027-632-123394	Sequence 123394, A
C 82	20	80.0	1203	13	US-10-027-632-123395	Sequence 123395, A
C 83	20	80.0	1444	13	US-10-027-632-255607	Sequence 255607, A
C 84	20	80.0	1445	13	US-10-027-632-30507	Sequence 30507, A
C 85	20	80.0	1611	12	US-09-814-353-389	Sequence 389, App
C 86	20	80.0	1875	12	US-10-187-749-389	Sequence 389, App
C 87	20	80.0	1875	12	US-10-187-749-389	Sequence 389, App
C 88	20	80.0	1875	12	US-10-187-749-389	Sequence 389, App
C 89	20	80.0	1875	12	US-10-187-749-389	Sequence 389, App

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92	20	80.0	1875	12	US-10-173-690-389	Sequence 389, App	1875	14	US-10-176-997-389	Sequence 389, App
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95	20	80.0	1875	12	US-10-173-694-389	Sequence 389, App	1875	14	US-10-176-991-389	Sequence 389, App
96	20	80.0	1875	12	US-10-173-698-389	Sequence 389, App	1875	14	US-10-102-796-136	Sequence 136, App
97	20	80.0	1875	12	US-10-173-699-389	Sequence 389, App	1875	14	US-10-066-273-136	Sequence 136, App
98	20	80.0	1875	12	US-10-173-707-389	Sequence 389, App	1875	14	US-10-174-585-389	Sequence 389, App
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121	20	80.0	1875	12	US-10-179-502-389	Sequence 389, App	1875	14	US-10-180-549-389	Sequence 389, App
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128	20	80.0	1875	12	US-10-174-574-389	Sequence 389, App	1875	14	US-10-184-614-389	Sequence 389, App
129	20	80.0	1875	12	US-10-176-486-389	Sequence 389, App	1875	14	US-10-184-623-389	Sequence 389, App
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131	20	80.0	1875	12	US-10-176-752-389	Sequence 389, App	1875	14	US-10-184-637-389	Sequence 389, App
132	20	80.0	1875	12	US-10-176-981-389	Sequence 389, App	1875	14	US-10-184-646-389	Sequence 389, App
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135	20	80.0	1875	12	US-10-179-517-389	Sequence 389, App	1875	14	US-10-187-594-389	Sequence 389, App
136	20	80.0	1875	12	US-10-179-521-389	Sequence 389, App	1875	14	US-10-187-595-389	Sequence 389, App
137	20	80.0	1875	12	US-10-066-203-136	Sequence 136, App	1875	14	US-10-187-760-389	Sequence 389, App
138	20	80.0	1875	12	US-10-202-475-389	Sequence 389, App	1875	14	US-10-187-885-389	Sequence 389, App
139	20	80.0	1875	13	US-10-052-586-389	Sequence 389, App	1875	14	US-10-187-886-389	Sequence 389, App
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150	20	80.0	1875	14	US-10-180-557-389	Sequence 389, App	1875	14	US-10-184-631-389	Sequence 389, App
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152	20	80.0	1875	14	US-10-174-572-389	Sequence 389, App	1875	14	US-10-184-631-389	Sequence 389, App
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157	20	80.0	1875	14	US-10-175-739-389	Sequence 389, App	1875	14	US-10-184-630-389	Sequence 389, App
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178	20	80.0	1875	14	US-10-176-747-389	Sequence 389, App	1875	14	US-10-184-651-389	Sequence 389, App
179	20	80.0	1875	14	US-10-176-747-389	Sequence 389, App	1875	14	US-10-184-651-389	Sequence 389, App
180	20	80.0	1875	14	US-10-176-747-389	Sequence 389, App	1875	14	US-10-184-651-389	Sequence 389, App
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183	20	80.0	1875	14	US-10-176-747-389	Sequence 389, App	1875	14	US-10-184-651-389	Sequence 389, App
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185	20	80.0	1875	14	US-10-176-747-389	Sequence 389, App	1875	14	US-10-184-651-389	Sequence 389, App
186	20	80.0	1875	14	US-10-176-747-389	Sequence 389, App	1875	14	US-10-184-651-389	Sequence 389, App
187	20	80.0	1875	14	US-10-176-747-389	Sequence 389, App	1875	14	US-10-184-651-389	Sequence 389, App
188	20	80.0	1875	14						

236	20	80.0	1875	14	US-10-187-588-389	Sequence 389, App	309	20	80.0	1875	14	US-10-184-656-389	Sequence 389, App
237	20	80.0	1875	14	US-10-187-597-389	Sequence 389, App	310	20	80.0	1875	14	US-10-192-010-389	Sequence 389, App
238	20	80.0	1875	14	US-10-187-598-389	Sequence 389, App	311	20	80.0	1875	14	US-10-205-908-389	Sequence 389, App
239	20	80.0	1875	14	US-10-187-600-389	Sequence 389, App	312	20	80.0	1875	14	US-10-186-855-389	Sequence 389, App
240	20	80.0	1875	14	US-10-187-601-389	Sequence 389, App	313	20	80.0	1875	14	US-10-187-601-389	Sequence 389, App
241	20	80.0	1875	14	US-10-187-602-389	Sequence 389, App	314	20	80.0	1875	14	US-10-187-750-389	Sequence 389, App
242	20	80.0	1875	14	US-10-187-603-389	Sequence 389, App	315	20	80.0	1875	14	US-10-188-780-389	Sequence 389, App
243	20	80.0	1875	14	US-10-187-741-389	Sequence 389, App	316	20	80.0	1875	14	US-10-192-015-389	Sequence 389, App
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252	20	80.0	1875	14	US-10-188-767-389	Sequence 389, App	325	20	80.0	1875	14	US-10-197-700-389	Sequence 389, App
253	20	80.0	1875	14	US-10-188-769-389	Sequence 389, App	326	20	80.0	1875	14	US-10-197-705-389	Sequence 389, App
254	20	80.0	1875	14	US-10-188-770-389	Sequence 389, App	327	20	80.0	1875	14	US-10-197-708-389	Sequence 389, App
255	20	80.0	1875	14	US-10-188-773-389	Sequence 389, App	328	20	80.0	1875	14	US-10-198-764-389	Sequence 389, App
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269	20	80.0	1875	14	US-10-179-507-389	Sequence 389, App	342	20	80.0	1875	14	US-10-201-534-389	Sequence 389, App
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290	20	80.0	1875	14	US-10-196-762-389	Sequence 389, App	363	20	80.0	1875	14	US-10-187-887-389	Sequence 389, App
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454	20	80.0	1875	14	US-10-201-535-389	Sequence 389, App	527	20	80.0	1875	14	US-10-198-771-389	Sequence 389, App
455	20	80.0	1875	14	US-10-201-769-389	Sequence 389, App	528	20	80.0	1875	14	US-10-174-578A-389	Sequence 389, App

528	20	80.0	1875	14	US-10-179-520-389	Sequence 389, App	C 601	20	80.0	54000	12	US-09-843-377-11	Sequence 11, Appl
529	20	80.0	1875	14	US-10-201-325-389	Sequence 389, App	C 602	20	80.0	65608	9	US-09-962-436-292	Sequence 292, App
530	20	80.0	1875	14	US-10-202-941-389	Sequence 389, App	C 603	20	80.0	65608	10	US-09-962-436-292	Sequence 119, App
531	20	80.0	1875	14	US-10-205-910-389	Sequence 389, App	C 604	20	80.0	65608	10	US-09-954-531-180	Sequence 180, App
532	20	80.0	1875	14	US-10-179-526-389	Sequence 389, App	C 605	20	80.0	73467	14	US-10-237-853-3	Sequence 3, Appl1
533	20	80.0	1875	14	US-10-173-701-389	Sequence 389, App	C 606	20	80.0	89368	12	US-09-873-367C-332	Sequence 332, App
534	20	80.0	1875	14	US-10-179-511-389	Sequence 389, App	C 607	20	80.0	98829	14	US-10-017-724-3	Sequence 3, Appl1
535	20	80.0	1875	14	US-10-183-018-389	Sequence 389, App	C 608	20	80.0	99014	10	US-09-880-107-3448	Sequence 3428, Ap
536	20	80.0	1875	14	US-10-183-018-389	Sequence 389, App	C 609	20	80.0	106344	11	US-09-910-188-10	Sequence 10, Appl1
537	20	80.0	1875	14	US-10-184-657-389	Sequence 389, App	C 610	20	80.0	143899	11	US-09-972-546-15	Sequence 15, Appl1
538	20	80.0	1875	14	US-10-197-701-389	Sequence 389, App	C 611	20	80.0	203654	10	US-09-820-905-3	Sequence 3, Appl1
539	20	80.0	1875	14	US-10-197-706-389	Sequence 389, App	C 612	20	80.0	250000	12	US-10-225-810-26	Sequence 26, Appl1
540	20	80.0	1875	14	US-10-201-857-389	Sequence 389, App	C 613	20	80.0	300000	14	US-10-262-552-33	Sequence 33, Appl1
541	20	80.0	1875	14	US-10-202-913-389	Sequence 389, App	C 614	20	80.0	302250	10	US-09-962-923-154	Sequence 154, Appl
542	20	80.0	1875	14	US-10-202-938-389	Sequence 389, App	C 615	20	80.0	323210	12	US-10-060-900-1	Sequence 1, Appl1
543	20	80.0	1875	14	US-10-202-940-389	Sequence 389, App	C 616	20	80.0	1691139	14	US-10-067-514-1	Sequence 1, Appl1
544	20	80.0	1875	14	US-10-205-508-389	Sequence 389, App	C 617	20	80.0	2540917	13	US-10-027-632-174763	Sequence 174763, App
545	20	80.0	1875	14	US-10-205-508-389	Sequence 389, App	C 618	20	80.0	80	12	US-10-329-465-291	Sequence 291, App
546	20	80.0	1875	14	US-10-205-508-389	Sequence 389, App	C 619	20	80.0	81	14	US-10-239-316-39	Sequence 39, Appl1
547	20	80.0	1875	14	US-10-206-918-389	Sequence 389, App	C 620	20	80.0	83	11	US-09-764-891-6171	Sequence 6171, Ap
548	20	80.0	1875	14	US-10-206-918-389	Sequence 389, App	C 621	20	80.0	90	9	US-09-764-887-601	Sequence 601, App
549	20	80.0	1875	14	US-10-226-739-136	Sequence 389, App	C 622	20	80.0	90	14	US-10-073-961-601	Sequence 601, App
550	20	80.0	1875	14	US-10-198-760-389	Sequence 389, App	C 623	20	80.0	95	9	US-09-764-869-2069	Sequence 2069, App
551	20	80.0	1875	14	US-10-201-772-389	Sequence 389, App	C 624	20	80.0	95	14	US-10-073-961-601	Sequence 2069, App
552	20	80.0	1875	14	US-10-184-613-389	Sequence 389, App	C 625	20	80.0	95	11	US-09-764-891-7051	Sequence 7051, App
553	20	80.0	1875	14	US-10-187-739-389	Sequence 389, App	C 626	20	80.0	95	14	US-10-091-504-2069	Sequence 2069, App
554	20	80.0	1875	14	US-10-206-907-389	Sequence 389, App	C 627	20	80.0	98	9	US-09-764-869-1767	Sequence 1767, App
555	20	80.0	1875	14	US-10-183-009-389	Sequence 389, App	C 628	20	80.0	98	14	US-10-091-504-2198	Sequence 2198, App
556	20	80.0	1875	14	US-10-187-755-389	Sequence 389, App	C 629	20	80.0	98	14	US-10-091-504-2198	Sequence 2198, App
557	20	80.0	2104	11	US-09-953-133-1	Sequence 1, Appl1	C 630	20	80.0	100	9	US-09-764-887-600	Sequence 600, App
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559	20	80.0	2236	13	US-10-027-632-252760	Sequence 252760, Sequence 252761,	C 632	20	80.0	101	11	US-09-764-891-9484	Sequence 9484, App
560	20	80.0	2236	13	US-10-027-632-252761	Sequence 252761, Sequence 1859, Ap	C 633	20	80.0	101	14	US-10-205-422-865	Sequence 865, App
561	20	80.0	2529	14	US-09-764-847-1859	Sequence 1859, Ap	C 634	20	80.0	102	10	US-09-764-877-3352	Sequence 3352, App
562	20	80.0	2529	14	US-10-092-154-1859	Sequence 1859, Ap	C 635	20	80.0	102	11	US-09-764-891-8272	Sequence 8272, App
563	20	80.0	2529	14	US-10-027-632-11979	Sequence 11979, Sequence 11633,	C 636	20	80.0	102	9	US-09-764-860-979	Sequence 979, App
C 564	20	80.0	2982	13	US-10-027-632-116433	Sequence 116433, Sequence 19, Appl1	C 637	20	80.0	105	14	US-09-764-860-979	Sequence 9198
565	20	80.0	3164	12	US-10-325-430-19	Sequence 19, Appl1	C 638	20	80.0	105	11	US-10-091-577-774	Sequence 774, App
566	20	80.0	3164	14	US-10-192-440-1	Sequence 19, Appl1	C 639	20	80.0	105	14	US-10-074-095-979	Sequence 979, App
567	20	80.0	3267	13	US-10-027-632-114979	Sequence 114979, Sequence 258792,	C 640	20	80.0	107	14	US-09-764-869-2068	Sequence 2068, App
C 568	20	80.0	3365	13	US-10-027-632-258792	Sequence 258792, Sequence 1, Appl1	C 641	20	80.0	107	14	US-10-091-504-2068	Sequence 2068, App
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570	20	80.0	3804	11	US-10-143-238-1	Sequence 1, Appl1	C 643	20	80.0	110	9	US-09-764-860-792	Sequence 792, App
571	20	80.0	3806	12	US-09-835-297-3	Sequence 3, Appl1	C 644	20	80.0	110	14	US-09-764-860-792	Sequence 1409, Ap
C 572	20	80.0	5000	9	US-09-791-105-1	Sequence 1, Appl1	C 645	20	80.0	114	10	US-09-764-860-792	Sequence 1409, Ap
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C 574	20	80.0	5139	10	US-09-764-847-3802	Sequence 3802, Ap	C 647	20	80.0	114	11	US-09-764-872-577	Sequence 577, App
575	20	80.0	5814	10	US-09-764-847-1860	Sequence 1860, Ap	C 648	20	80.0	114	14	US-10-092-154-1408	Sequence 1408, Ap
576	20	80.0	5814	14	US-10-092-154-1860	Sequence 1860, Ap	C 649	20	80.0	114	14	US-10-092-154-1409	Sequence 1409, Ap
577	20	80.0	8886	9	US-09-764-878-412	Sequence 412, App	C 650	20	80.0	114	14	US-10-074-095-792	Sequence 792, App
578	20	80.0	8886	14	US-10-079-854-412	Sequence 412, App	C 651	20	80.0	118	10	US-09-860-670-234	Sequence 234, App
579	20	80.0	8887	9	US-09-764-878-414	Sequence 414, App	C 652	20	80.0	120	9	US-09-764-860-659	Sequence 659, App
580	20	80.0	8887	14	US-10-079-854-414	Sequence 414, App	C 653	20	80.0	120	11	US-09-764-860-659	Sequence 8469, App
581	20	80.0	10634	11	US-09-764-891-816	Sequence 816, Ap	C 654	20	80.0	120	14	US-10-074-095-659	Sequence 659, App
582	20	80.0	11838	10	US-09-764-891-7020	Sequence 7020, Ap	C 655	20	80.0	122	10	US-09-764-877-2168	Sequence 2168, App
C 583	20	80.0	16162	11	US-09-764-877-2322	Sequence 2322, Ap	C 656	20	80.0	123	10	US-09-764-847-1855	Sequence 1855, Ap
C 584	20	80.0	18878	10	US-09-764-877-3806	Sequence 3806, Ap	C 657	20	80.0	123	14	US-10-092-154-1855	Sequence 1855, Ap
C 585	20	80.0	25309	12	US-10-365-564-3	Sequence 3, Appl1	C 658	20	80.0	124	11	US-09-764-891-8786	Sequence 8786, App
C 586	20	80.0	25309	14	US-10-291-737-3	Sequence 3, Appl1	C 659	20	80.0	125	11	US-09-764-891-8786	Sequence 8786, App
C 587	20	80.0	28588	9	US-09-764-887-399	Sequence 399, App	C 660	20	80.0	125	11	US-09-764-891-6089	Sequence 6089, App
C 588	20	80.0	28588	14	US-10-073-961-399	Sequence 399, App	C 661	20	80.0	125	11	US-09-764-891-6091	Sequence 6091, App
C 589	20	80.0	31994	9	US-09-764-860-599	Sequence 599, App	C 662	20	80.0	125	11	US-09-764-891-6091	Sequence 6091, App
C 590	20	80.0	31994	14	US-10-091-548-71	Sequence 71, Appl	C 663	20	80.0	125	14	US-09-764-891-6091	Sequence 6091, App
C 591	20	80.0	31994	14	US-10-091-548-71	Sequence 71, Appl	C 664	20	80.0	126	14	US-10-091-548-71	Sequence 2373, App
C 592	20	80.0	31994	14	US-10-074-095-599	Sequence 599, App	C 665	20	80.0	129	10	US-09-783-550-10234	Sequence 10234, A
593	20	80.0	32167	11	US-09-764-891-9699	Sequence 9699, Ap	C 666	20	80.0	129	10	US-09-764-847-1975	Sequence 1975, Ap
C 594	20	80.0	32167	11	US-09-764-891-9699	Sequence 9699, Ap	C 667	20	80.0	129	14	US-10-092-154-1975	Sequence 1975, Ap
C 595	20	80.0	32248	10	US-09-764-891-8197	Sequence 8197, Ap	C 668	20	80.0	130	10	US-09-764-877-4006	Sequence 4006, Ap
C 596	20	80.0	32248	10	US-09-764-864-1769	Sequence 1769, Ap	C 669	20	80.0	131	10	US-09-764-877-2688	Sequence 2688, Ap
C 597	20	80.0	32248	10	US-09-764-877-3487	Sequence 3487, Ap	C 670	20	80.0	134	10	US-09-764-868-1488	Sequence 1488, Ap
C 598	20	80.0	34118	12	US-10-017-161-1071	Sequence 1071, Ap	C 671	20	80.0	134	10	US-09-764-868-1490	Sequence 1490, Ap
C 599	20	80.0	36400	12	US-10-225-810-10	Sequence 10, Appl	C 672	20	80.0	136	11	US-09-764-891-7717	Sequence 7717, Ap
C 600	20	80.0	49984	9	US-09-739-457-5	Sequence 5, Appl1	C 673	20	80.0	137	10	US-09-974-300-7413	Sequence 7413, Ap

674	19	76.0	137	14	US-10-001-469-2871	Sequence 2871, Ap	C 747	19	76.0	276	11	US-09-764-891-5818	Sequence 5818, Ap
675	19	76.0	138	9	US-09-764-869-2218	Sequence 2218, Ap	C 748	19	76.0	277	10	US-09-867-701-8140	Sequence 8140, Ap
676	19	76.0	138	11	US-09-764-872-575	Sequence 575, App	C 749	19	76.0	284	10	US-09-867-701-58	Sequence 58, Appl
677	19	76.0	138	11	US-09-764-872-578	Sequence 578, App	C 750	19	76.0	285	11	US-09-803-719-156	Sequence 156, App
678	19	76.0	138	14	US-10-091-504-2228	Sequence 2218, Ap	C 751	19	76.0	285	10	US-10-102-621-106	Sequence 106, App
679	19	76.0	140	11	US-09-764-891-7695	Sequence 7695, Ap	C 752	19	76.0	287	10	US-09-867-701-7272	Sequence 7272, Ap
680	19	76.0	141	10	US-09-764-872-2636	Sequence 2636, Ap	C 753	19	76.0	287	10	US-09-764-866-1476	Sequence 1476, Ap
681	19	76.0	146	11	US-09-764-872-661	Sequence 661, App	C 754	19	76.0	288	10	US-09-764-867-3340	Sequence 3340, Ap
682	19	76.0	146	11	US-09-764-891-7694	Sequence 7694, Ap	C 755	19	76.0	289	10	US-09-764-877-2732	Sequence 2732, Ap
683	19	76.0	152	11	US-09-764-872-863	Sequence 863, App	C 756	19	76.0	291	10	US-09-964-824A-509	Sequence 509, App
684	19	76.0	152	11	US-09-764-891-7881	Sequence 7881, Ap	C 757	19	76.0	291	10	US-09-969-347-1	Sequence 1, Appl1
C 685	19	76.0	152	14	US-10-001-469-2869	Sequence 2869, Ap	C 758	19	76.0	292	11	US-09-764-891-6009	Sequence 6009, Ap
C 686	19	76.0	154	10	US-09-764-847-1662	Sequence 1662, Ap	C 759	19	76.0	292	13	US-10-040-763-673	Sequence 673, App
C 687	19	76.0	154	14	US-10-092-154-1662	Sequence 1662, Ap	C 760	19	76.0	294	10	US-09-772-719-61	Sequence 61, Appl
C 688	19	76.0	158	9	US-09-908-711-164	Sequence 164, App	C 761	19	76.0	294	11	US-09-967-237-61	Sequence 61, Appl
C 689	19	76.0	158	9	US-09-764-860-1049	Sequence 1049, Ap	C 762	19	76.0	295	9	US-09-815-343-327	Sequence 327, App
C 690	19	76.0	158	11	US-09-764-891-8484	Sequence 8484, Ap	C 763	19	76.0	296	10	US-09-867-701-3551	Sequence 3551, Ap
C 691	19	76.0	158	11	US-10-074-095-1049	Sequence 1049, Ap	C 764	19	76.0	296	10	US-09-867-701-7573	Sequence 7573, Ap
C 692	19	76.0	160	9	US-09-764-860-598	Sequence 598, App	C 765	19	76.0	299	10	US-09-764-866-1441	Sequence 1441, Ap
C 693	19	76.0	160	14	US-10-074-095-598	Sequence 598, App	C 766	19	76.0	300	13	US-10-013-329-3	Sequence 3, Appl1
C 694	19	76.0	165	11	US-09-764-891-8720	Sequence 8720, Ap	C 767	19	76.0	301	10	US-09-764-847-1722	Sequence 1722, Ap
C 695	19	76.0	171	9	US-09-764-860-660	Sequence 660, App	C 768	19	76.0	301	14	US-10-092-154-1722	Sequence 1722, Ap
C 696	19	76.0	171	14	US-10-074-095-660	Sequence 660, App	C 769	19	76.0	301	15	US-10-255-434-1	Sequence 1, Appl1
C 697	19	76.0	175	14	US-10-001-469-2873	Sequence 2873, Ap	C 770	19	76.0	301	15	US-10-255-434-2	Sequence 2, Appl1
C 698	19	76.0	183	10	US-09-974-300-7929	Sequence 7929, Ap	C 771	19	76.0	303	10	US-09-764-847-1536	Sequence 1536, Ap
C 699	19	76.0	186	10	US-09-920-300A-381	Sequence 381, App	C 772	19	76.0	303	14	US-10-092-154-1536	Sequence 1536, Ap
C 700	19	76.0	186	12	US-10-099-926-381	Sequence 381, App	C 773	19	76.0	304	10	US-09-867-701-7459	Sequence 7459, Ap
C 701	19	76.0	186	13	US-10-033-528-381	Sequence 381, App	C 774	19	76.0	304	10	US-09-764-877-221	Sequence 221, App
C 702	19	76.0	190	10	US-09-764-847-306	Sequence 306, App	C 775	19	76.0	304	10	US-09-764-877-2451	Sequence 2451, App
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C 704	19	76.0	190	14	US-10-073-865-134	Sequence 134, App	C 777	19	76.0	308	10	US-09-867-701-7622	Sequence 7622, Ap
C 705	19	76.0	190	14	US-10-092-154-306	Sequence 306, App	C 778	19	76.0	308	10	US-09-736-451-1111	Sequence 1111, Ap
C 706	19	76.0	199	9	US-09-764-869-1608	Sequence 1608, Ap	C 779	19	76.0	308	10	US-09-902-941-1111	Sequence 1111, Ap
C 707	19	76.0	199	14	US-10-091-504-1608	Sequence 1608, Ap	C 780	19	76.0	308	10	US-09-849-626-1111	Sequence 1111, Ap
C 708	19	76.0	203	10	US-09-764-877-4031	Sequence 4031, Ap	C 781	19	76.0	308	12	US-10-113-872-1111	Sequence 1111, Ap
C 709	19	76.0	203	10	US-09-860-670-152	Sequence 152, App	C 782	19	76.0	308	14	US-10-017-754-1111	Sequence 1111, Ap
C 710	19	76.0	210	11	US-09-764-891-7750	Sequence 7750, Ap	C 783	19	76.0	309	13	US-10-010-739-117	Sequence 137, App
C 711	19	76.0	215	10	US-09-867-871-5201	Sequence 5201, Ap	C 784	19	76.0	310	9	US-09-764-887-514	Sequence 514, App
C 712	19	76.0	218	10	US-09-764-877-375	Sequence 375, App	C 785	19	76.0	310	14	US-10-073-964-514	Sequence 514, App
C 713	19	76.0	218	12	US-09-814-353-2927	Sequence 2927, Ap	C 786	19	76.0	313	10	US-09-764-877-628	Sequence 628, App
C 714	19	76.0	218	12	US-09-814-353-9256	Sequence 9256, Ap	C 787	19	76.0	316	10	US-09-867-701-8139	Sequence 8139, App
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C 716	19	76.0	219	11	US-09-764-891-9053	Sequence 9053, Ap	C 789	19	76.0	318	10	US-09-867-701-7369	Sequence 7369, Ap
C 717	19	76.0	219	14	US-10-092-154-1310	Sequence 1310, Ap	C 790	19	76.0	319	11	US-09-803-719-1483	Sequence 1483, Ap
C 718	19	76.0	228	11	US-09-764-891-2043	Sequence 2043, Ap	C 791	19	76.0	321	11	US-09-764-891-8279	Sequence 8279, Ap
C 719	19	76.0	235	13	US-10-027-633-82758	Sequence 82758, A	C 792	19	76.0	322	11	US-09-764-891-1695	Sequence 1695, Ap
C 720	19	76.0	237	14	US-10-060-036-873	Sequence 873, App	C 793	19	76.0	323	14	US-10-078-030-93	Sequence 93, Appl
C 721	19	76.0	240	10	US-09-867-701-9455	Sequence 9455, App	C 794	19	76.0	324	10	US-09-764-877-2512	Sequence 2512, Ap
C 722	19	76.0	243	10	US-09-764-864-1629	Sequence 1629, Ap	C 795	19	76.0	325	11	US-09-803-719-1990	Sequence 1990, Ap
C 723	19	76.0	246	11	US-09-898-556A-11	Sequence 11, Appl	C 796	19	76.0	325	14	US-10-060-036-2882	Sequence 2882, Ap
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C 726	19	76.0	250	11	US-09-764-891-6636	Sequence 6636, Ap	C 799	19	76.0	326	14	US-10-074-095-910	Sequence 910, App
C 727	19	76.0	250	11	US-09-764-891-6637	Sequence 6637, Ap	C 800	19	76.0	326	14	US-10-074-095-911	Sequence 911, App
C 728	19	76.0	250	14	US-10-091-572-500	Sequence 500, App	C 801	19	76.0	327	11	US-09-803-719-998	Sequence 998, App
C 729	19	76.0	250	14	US-10-091-572-501	Sequence 501, App	C 802	19	76.0	328	13	US-10-027-632-275330	Sequence 275330
C 730	19	76.0	251	9	US-09-764-860-652	Sequence 652, App	C 803	19	76.0	330	13	US-09-815-343-1273	Sequence 1273, Ap
C 731	19	76.0	251	14	US-10-074-095-652	Sequence 652, App	C 804	19	76.0	330	13	US-10-027-632-11851	Sequence 11851, A
C 732	19	76.0	254	14	US-10-060-036-1165	Sequence 1165, Ap	C 805	19	76.0	331	9	US-09-813-343-1029	Sequence 1029, Ap
C 733	19	76.0	257	10	US-09-867-701-325	Sequence 325, App	C 806	19	76.0	332	10	US-09-764-701-4745	Sequence 4745, Ap
C 734	19	76.0	257	13	US-10-027-633-288497	Sequence 288497, A	C 807	19	76.0	332	10	US-09-764-877-2542	Sequence 2542, Ap
C 735	19	76.0	257	13	US-10-027-633-288498	Sequence 288498, A	C 808	19	76.0	332	10	US-09-796-692-6817	Sequence 6817, Ap
C 736	19	76.0	258	10	US-09-764-847-1939	Sequence 1939, Ap	C 809	19	76.0	332	11	US-09-803-719-1339	Sequence 1339, Ap
C 737	19	76.0	258	10	US-10-092-154-1939	Sequence 1939, Ap	C 810	19	76.0	332	14	US-10-040-862-6817	Sequence 6817, Ap
C 738	19	76.0	259	10	US-09-764-877-3122	Sequence 3122, Ap	C 811	19	76.0	334	11	US-09-918-995-18018	Sequence 18018, A
C 739	19	76.0	264	9	US-09-764-860-162	Sequence 162, App	C 812	19	76.0	335	12	US-09-918-995-15265	Sequence 15265, A
C 740	19	76.0	264	14	US-09-867-701-306	Sequence 306, App	C 813	19	76.0	335	13	US-10-027-632-19997	Sequence 19997, A
C 741	19	76.0	264	14	US-10-074-095-162	Sequence 162, App	C 814	19	76.0	336	11	US-09-871-161-17	Sequence 17, Appl
C 742	19	76.0	265	13	US-09-878-178-2018	Sequence 2018, Ap	C 815	19	76.0	337	10	US-09-867-701-331	Sequence 331, App
C 743	19	76.0	265	13	US-10-046-935-2018	Sequence 2018, Ap	C 816	19	76.0	338	11	US-09-764-891-6984	Sequence 6984, Ap
C 744	19	76.0	265	14	US-10-146-502-2018	Sequence 2018, Ap	C 817	19	76.0	339	11	US-09-918-995-18287	Sequence 18287, A
C 745	19	76.0	273	10	US-09-867-701-7464	Sequence 7464, Ap	C 818	19	76.0	339	12	US-09-843-377-10	Sequence 10, Appl
C 746	19	76.0	276	11	US-09-764-891-5817	Sequence 5817, Ap	C 819	19	76.0	339	14	US-10-066-543-3415	Sequence 3415, Ap

C 820	19	76.0	340	9	US-09-764-860-218	Sequence 218, App	893	19	76.0	368	12	US-10-113-872-1038	Sequence 1038, App
C 821	19	76.0	340	14	US-10-074-095-218	Sequence 218, App	C 894	19	76.0	368	12	US-10-113-872-1044	Sequence 1044, App
C 822	19	76.0	341	11	US-09-525-978B-2	Sequence 2, Appl1	C 895	19	76.0	368	12	US-10-113-872-1092	Sequence 1092, App
C 823	19	76.0	341	11	US-09-918-995-18053	Sequence 18053, A	C 896	19	76.0	368	12	US-10-113-872-1584	Sequence 1584, A
C 824	19	76.0	342	11	US-09-764-891-8278	Sequence 8278, App	C 897	19	76.0	368	14	US-10-017-754-1003	Sequence 1003, App
C 825	19	76.0	343	11	US-09-918-995-25864	Sequence 25864, A	C 898	19	76.0	368	14	US-10-017-754-1038	Sequence 1038, App
C 826	19	76.0	344	10	US-09-796-692-5221	Sequence 5221, App	C 899	19	76.0	368	14	US-10-017-754-1044	Sequence 1044, App
C 827	19	76.0	344	10	US-09-764-891-1636	Sequence 1636, App	C 900	19	76.0	368	14	US-10-017-754-1092	Sequence 1092, App
C 828	19	76.0	344	14	US-10-040-862-5221	Sequence 5221, App	C 901	19	76.0	368	14	US-10-017-754-1584	Sequence 1584, App
C 829	19	76.0	345	11	US-09-803-719-1837	Sequence 1837, App	C 902	19	76.0	369	10	US-09-867-701-466	Sequence 466, App
C 830	19	76.0	346	10	US-09-867-701-7707	Sequence 7707, App	C 903	19	76.0	369	10	US-09-867-701-678	Sequence 678, App
C 831	19	76.0	348	10	US-09-998-598-444	Sequence 444, App	C 904	19	76.0	369	11	US-09-918-995-37474	Sequence 37474, A
C 832	19	76.0	350	13	US-10-027-632-20007	Sequence 20007, A	C 905	19	76.0	370	10	US-09-867-701-10031	Sequence 10031, A
C 833	19	76.0	351	12	US-09-814-353-911	Sequence 911, App	C 906	19	76.0	372	13	US-10-027-632-973899	Sequence 973899, A
C 834	19	76.0	351	12	US-09-814-353-7282	Sequence 7282, App	C 907	19	76.0	372	13	US-09-867-701-9213	Sequence 9213, App
C 835	19	76.0	352	13	US-10-027-632-259227	Sequence 259227, A	C 908	19	76.0	373	10	US-09-878-178-403	Sequence 403, App
C 836	19	76.0	353	10	US-09-867-701-7559	Sequence 7559, App	C 909	19	76.0	373	11	US-09-918-995-7549	Sequence 7549, App
C 837	19	76.0	353	11	US-09-803-719-762	Sequence 762, App	C 910	19	76.0	373	13	US-10-046-935-403	Sequence 403, App
C 838	19	76.0	353	11	US-09-764-891-8071	Sequence 8071, App	C 911	19	76.0	373	13	US-10-027-632-269384	Sequence 269384, A
C 839	19	76.0	354	10	US-09-867-701-6985	Sequence 6985, App	C 912	19	76.0	373	14	US-10-146-502-403	Sequence 403, App
C 840	19	76.0	354	10	US-09-867-701-8056	Sequence 8056, App	C 913	19	76.0	374	10	US-09-954-531-559	Sequence 559, App
C 841	19	76.0	355	10	US-09-867-701-7519	Sequence 7519, App	C 914	19	76.0	374	11	US-09-871-161-135	Sequence 135, App
C 842	19	76.0	355	10	US-09-867-701-7605	Sequence 7605, App	C 915	19	76.0	375	9	US-09-764-860-1086	Sequence 1086, App
C 843	19	76.0	357	11	US-09-918-995-7577	Sequence 7577, App	C 916	19	76.0	375	9	US-09-764-860-1087	Sequence 1087, App
C 844	19	76.0	358	13	US-10-027-632-261812	Sequence 261812, A	C 917	19	76.0	375	10	US-09-867-701-7569	Sequence 7569, App
C 845	19	76.0	359	11	US-09-918-995-18790	Sequence 18790, A	C 918	19	76.0	375	14	US-10-074-095-1087	Sequence 1087, App
C 846	19	76.0	360	9	US-09-925-299-249	Sequence 249, App	C 919	19	76.0	375	14	US-10-074-095-1087	Sequence 1087, App
C 847	19	76.0	360	11	US-09-880-107-3540	Sequence 3540, App	C 920	19	76.0	377	11	US-09-867-701-9604	Sequence 9604, App
C 848	19	76.0	361	11	US-09-918-995-18249	Sequence 18249, A	C 921	19	76.0	377	11	US-09-918-995-29700	Sequence 29700, A
C 849	19	76.0	361	11	US-09-918-995-18249	Sequence 18249, A	C 922	19	76.0	379	10	US-09-834-975-649	Sequence 649, App
C 850	19	76.0	363	10	US-09-736-457-878	Sequence 878, App	C 923	19	76.0	379	11	US-09-764-891-5685	Sequence 5685, App
C 851	19	76.0	363	10	US-09-902-941-878	Sequence 878, App	C 924	19	76.0	381	9	US-09-815-341-206	Sequence 206, App
C 852	19	76.0	363	10	US-09-849-626-878	Sequence 878, App	C 925	19	76.0	381	11	US-09-764-891-285	Sequence 285, App
C 853	19	76.0	363	12	US-10-113-872-878	Sequence 878, App	C 926	19	76.0	381	11	US-10-027-632-41066	Sequence 41066, A
C 854	19	76.0	363	14	US-10-017-754-878	Sequence 878, App	C 927	19	76.0	382	13	US-10-027-632-267215	Sequence 267215, A
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C 859	19	76.0	364	12	US-10-113-872-867	Sequence 867, App	C 932	19	76.0	386	12	US-09-960-706-880	Sequence 880, App
C 860	19	76.0	364	14	US-10-017-754-867	Sequence 867, App	C 933	19	76.0	387	11	US-09-867-701-8368	Sequence 8368, App
C 861	19	76.0	365	10	US-09-867-701-7738	Sequence 7738, App	C 934	19	76.0	387	11	US-09-918-995-5313	Sequence 5313, App
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C 863	19	76.0	366	10	US-09-867-701-8142	Sequence 8142, App	C 936	19	76.0	387	13	US-10-027-632-252743	Sequence 252743, A
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C 865	19	76.0	367	10	US-09-867-701-7572	Sequence 7572, App	C 938	19	76.0	388	10	US-09-867-701-893	Sequence 893, App
C 866	19	76.0	367	10	US-09-736-457-1143	Sequence 1143, App	C 939	19	76.0	388	10	US-09-867-701-9102	Sequence 9102, App
C 867	19	76.0	367	10	US-09-736-457-1626	Sequence 1626, App	C 940	19	76.0	389	11	US-09-803-719-27	Sequence 27, Appl1
C 868	19	76.0	367	10	US-09-902-941-1143	Sequence 1143, App	C 941	19	76.0	389	10	US-09-867-701-10037	Sequence 10037, A
C 869	19	76.0	367	10	US-09-902-941-1626	Sequence 1626, App	C 942	19	76.0	390	10	US-09-867-701-3274	Sequence 3274, App
C 870	19	76.0	367	10	US-09-849-626-1143	Sequence 1143, App	C 943	19	76.0	390	10	US-09-867-701-7135	Sequence 7135, App
C 871	19	76.0	367	10	US-09-849-626-1526	Sequence 1526, App	C 944	19	76.0	390	10	US-09-867-701-7821	Sequence 7821, App
C 872	19	76.0	367	12	US-10-113-872-1143	Sequence 1143, App	C 945	19	76.0	390	11	US-09-918-995-36545	Sequence 36545, A
C 873	19	76.0	367	12	US-10-113-872-1626	Sequence 1626, App	C 946	19	76.0	390	11	US-10-027-632-280297	Sequence 280297, A
C 874	19	76.0	367	14	US-10-017-754-1143	Sequence 1143, App	C 947	19	76.0	391	11	US-09-764-891-5669	Sequence 5669, App
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C 876	19	76.0	368	10	US-09-736-457-1003	Sequence 1003, App	C 949	19	76.0	391	12	US-09-814-353-15640	Sequence 15640, A
C 877	19	76.0	368	10	US-09-736-457-1038	Sequence 1038, App	C 950	19	76.0	392	10	US-09-867-701-9069	Sequence 9069, App
C 878	19	76.0	368	10	US-09-736-457-1044	Sequence 1044, App	C 951	19	76.0	392	10	US-09-764-877-2138	Sequence 2138, App
C 879	19	76.0	368	10	US-09-736-457-1584	Sequence 1584, App	C 952	19	76.0	392	11	US-09-918-995-3449	Sequence 3449, App
C 880	19	76.0	368	10	US-09-736-457-1592	Sequence 1592, App	C 953	19	76.0	393	10	US-09-867-701-9297	Sequence 9297, App
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C 882	19	76.0	368	10	US-09-902-941-1038	Sequence 1038, App	C 955	19	76.0	394	10	US-09-867-701-478	Sequence 478, App
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C 887	19	76.0	368	10	US-09-849-626-1038	Sequence 1038, App	C 960	19	76.0	396	10	US-09-867-701-9203	Sequence 9203, App
C 888	19	76.0	368	10	US-09-849-626-1044	Sequence 1044, App	C 961	19	76.0	396	10	US-09-880-107-442	Sequence 442, App
C 889	19	76.0	368	10	US-09-849-626-1092	Sequence 1092, App	C 962	19	76.0	396	10	US-09-970-966-46	Sequence 46, Appl1
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C 892	19	76.0	368	12	US-10-113-872-1003	Sequence 1003, App	C 965	19	76.0	397	10	US-09-867-701-8104	Sequence 8104, App

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C 969 19 76.0 399 11 US-09-918-995-36502 Sequence 36502, A
C 970 19 76.0 399 13 US-10-027-632-294715 Sequence 294715,
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C 973 19 76.0 400 11 US-09-764-891-7584 Sequence 7584, Ap
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C 986 19 76.0 401 9 US-09-795-668-1016 Sequence 1016, Ap
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ALIGNMENTS

RESULT 1
US-09-784-423-124
Sequence 124, Application US/09784423
Patent No. US20020012924A1
GENERAL INFORMATION:
APPLICANT: Schumm, James W.
Bacher, Jeffery W.
TITLE OF INVENTION: MATERIALS AND METHODS FOR
IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM
REPEAT DNA MARKERS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Promega Corporation
STREET: 2800 Woods Hollow Road
CITY: Madison
STATE: Wisconsin
COUNTRY: U.S.A.
ZIP: 53711-5399
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb
COMPUTER: IBM compatible PC
OPERATING SYSTEM: Windows 95
SOFTWARE: Word 97 (DOS text format)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/784,423
FILING DATE: 15-Feb-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/018,584
FILING DATE: 04-Feb-1998
ATTORNEY/AGENT INFORMATION:
NAME: Grady J. Frenchick
REGISTRATION NUMBER: 29,018

REFERENCE/DOCKET NUMBER: 16026.9180
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 257-3501
TELEFAX: (608) 257-2275
INFORMATION FOR SEQ ID NO: 124
SEQUENCE CHARACTERISTICS:
LENGTH: 25
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 124
US-09-784-423-124
Query Match 100.0%; Score 25; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 8e-06;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGTTCGAGTGGAGCGAGATTAAGT 25
DB 1 GGTTCGAGTGGAGCGAGATTAAGT 25
RESULT 2
US-09-784-423-32
Sequence 32, Application US/09784423
Patent No. US20020012924A1
GENERAL INFORMATION:
APPLICANT: Schumm, James W.
Bacher, Jeffery W.
TITLE OF INVENTION: MATERIALS AND METHODS FOR
IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM
REPEAT DNA MARKERS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Promega Corporation
STREET: 2800 Woods Hollow Road
CITY: Madison
STATE: Wisconsin
COUNTRY: U.S.A.
ZIP: 53711-5399
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb
COMPUTER: IBM compatible PC
OPERATING SYSTEM: Windows 95
SOFTWARE: Word 97 (DOS text format)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/784,423
FILING DATE: 15-Feb-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/018,584
FILING DATE: 04-Feb-1998
ATTORNEY/AGENT INFORMATION:
NAME: Grady J. Frenchick
REGISTRATION NUMBER: 29,018
REFERENCE/DOCKET NUMBER: 16026.9180
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 257-3501
TELEFAX: (608) 257-2275
INFORMATION FOR SEQ ID NO: 32
SEQUENCE CHARACTERISTICS:
LENGTH: 1000 bp
TYPE: Nucleic Acid
STRANDEDNESS: Double
TOPOLOGY: Circular
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: no
IMMEDIATE SOURCE:
CLONE: 5132
POSITION IN GENOME:
CHROMOSOME/SEGMENT: 22
SEQUENCE DESCRIPTION: SEQ ID NO: 32
US-09-784-423-32

Query Match 100.0%; Score 25; DB 9; Length 1000;
Best Local Similarity 100.0%; Pred. No. 6,9e-06;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 441 GGTTCAGTGTAGCCGAGATTAAGT 465

RESULT 3
US-10-027-632-256
Sequence 256, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
POLYMORPHISMS IN THE HUMAN GENOME
FILE REFERENCE: 108827.129

CURRENT APPLICATION NUMBER: US/10/027,632

CURRENT FILING DATE: 2002-04-30

PRIOR APPLICATION NUMBER: US 60/218,006

PRIOR FILING DATE: 2000-07-12

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PRIOR APPLICATION NUMBER: US 60/193,483

PRIOR FILING DATE: 2000-03-29

PRIOR APPLICATION NUMBER: US 60/185,218

PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/167,363

PRIOR FILING DATE: 1999-11-23

PRIOR APPLICATION NUMBER: US 60/156,358

PRIOR FILING DATE: 1999-09-28

PRIOR APPLICATION NUMBER: US 60/146,002

PRIOR FILING DATE: 1999-08-09

NUMBER OF SEQ ID NOS: 325720

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 256

LENGTH: 611

TYPE: DNA

ORGANISM: Human

US-10-027-632-256

Query Match 84.0%; Score 21; DB 13; Length 611;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGTAGCCGAGATTA 21
DB 343 GGTTCAGTGTAGCCGAGATTA 363

RESULT 4
US-10-027-632-76653/c
Sequence 76653, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
POLYMORPHISMS IN THE HUMAN GENOME
FILE REFERENCE: 108827.129

CURRENT APPLICATION NUMBER: US/10/027,632

CURRENT FILING DATE: 2002-04-30

PRIOR APPLICATION NUMBER: US 60/218,006

PRIOR FILING DATE: 2000-07-12

PRIOR APPLICATION NUMBER: US 60/198,676

PRIOR FILING DATE: 2000-04-20

PRIOR APPLICATION NUMBER: US 60/193,483

PRIOR FILING DATE: 2000-03-29

PRIOR APPLICATION NUMBER: US 60/185,218

PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/167,363

PRIOR FILING DATE: 1999-11-23

PRIOR APPLICATION NUMBER: US 60/156,358

PRIOR FILING DATE: 1999-09-28

PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 76653
LENGTH: 619
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)...(619)
OTHER INFORMATION: n = A,T,C or G
US-10-027-632-76653

Query Match 84.0%; Score 21; DB 13; Length 619;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGTAGCCGAGATTA 21
DB 95 GGTTCAGTGTAGCCGAGATTA 75

RESULT 5
US-10-027-632-76654/c
Sequence 76654, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
POLYMORPHISMS IN THE HUMAN GENOME
FILE REFERENCE: 108827.129

CURRENT APPLICATION NUMBER: US/10/027,632

CURRENT FILING DATE: 2002-04-30

PRIOR APPLICATION NUMBER: US 60/218,006

PRIOR FILING DATE: 2000-07-12

PRIOR APPLICATION NUMBER: US 60/198,676

PRIOR FILING DATE: 2000-04-20

PRIOR APPLICATION NUMBER: US 60/193,483

PRIOR FILING DATE: 2000-03-29

PRIOR APPLICATION NUMBER: US 60/185,218

PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/167,363

PRIOR FILING DATE: 1999-11-23

PRIOR APPLICATION NUMBER: US 60/156,358

PRIOR FILING DATE: 1999-09-28

PRIOR APPLICATION NUMBER: US 60/146,002

PRIOR FILING DATE: 1999-08-09

NUMBER OF SEQ ID NOS: 325720

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 76654

LENGTH: 619

TYPE: DNA

ORGANISM: Human

FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)...(619)
OTHER INFORMATION: n = A,T,C or G
US-10-027-632-76654

Query Match 84.0%; Score 21; DB 13; Length 619;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGTAGCCGAGATTA 21
DB 95 GGTTCAGTGTAGCCGAGATTA 75

RESULT 6
US-10-027-632-109145/c
Sequence 109145, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.

```
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109145
; LENGTH: 619
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(619)
; OTHER INFORMATION: n = A,T,C or G
; US-10-027-632-109145
```

```
Query Match      84.0%; Score 21; DB 13; Length 619;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGTTCAGTGTAGCCGAGATTA 21
          |||||
Db      95 GGTTCAGTGTAGCCGAGATTA 75
```

```
RESULT 7
US-10-027-632-109146/c
; Sequence 109146, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109146
; LENGTH: 619
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(619)
```

```
; OTHER INFORMATION: n = A,T,C or G
; US-10-027-632-109146
```

```
Query Match      84.0%; Score 21; DB 13; Length 619;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGTTCAGTGTAGCCGAGATTA 21
          |||||
Db      95 GGTTCAGTGTAGCCGAGATTA 75
```

```
RESULT 8
US-10-027-632-41282/c
; Sequence 41282, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41282
; LENGTH: 618
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-41282
```

```
Query Match      84.0%; Score 21; DB 13; Length 638;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGTTCAGTGTAGCCGAGATTA 21
          |||||
Db      112 GGTTCAGTGTAGCCGAGATTA 92
```

```
RESULT 9
US-10-027-632-41283/c
; Sequence 41283, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
```

PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 41283
LENGTH: 638
TYPE: DNA
ORGANISM: Human
US-10-027-632-41283

Query Match 84.0%; Score 21; DB 13; Length 638;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGCAGCCGAGATTA 21
|||||
DB 112 GGTTCAGTGCAGCCGAGATTA 92

RESULT 10
US-10-027-632-128887
Sequence 128887, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 128887
LENGTH: 678
TYPE: DNA
ORGANISM: Human
US-10-027-632-128887

Query Match 84.0%; Score 21; DB 13; Length 678;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGCAGCCGAGATTA 21
|||||
DB 604 GGTTCAGTGCAGCCGAGATTA 624

RESULT 11
US-10-027-632-166508
Sequence 166508, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006

PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 166508
LENGTH: 896
TYPE: DNA
ORGANISM: Human
US-10-027-632-166508

Query Match 84.0%; Score 21; DB 13; Length 896;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGCAGCCGAGATTA 21
|||||
DB 402 GGTTCAGTGCAGCCGAGATTA 422

RESULT 12
US-10-027-632-102290/c
Sequence 102290, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 102290
LENGTH: 2339
TYPE: DNA
ORGANISM: Human
US-10-027-632-102290

Query Match 84.0%; Score 21; DB 13; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTCAGTGCAGCCGAGATTA 21
|||||
DB 1714 GGTTCAGTGCAGCCGAGATTA 1694

RESULT 13
US-10-027-632-102291/c

```
; Sequence 102291, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 102291
; LENGTH: 2339
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-102291
```

```
Query Match      84.0%; Score 21; DB 13; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GGTTCAGTGTAGCCGAGATTA 21
Db      1714 GGTTCAGTGTAGCCGAGATTA 1694
```

```
RESULT 14
US-09-764-891-5690
; Sequence 5690, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5690
; LENGTH: 19286
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-891-5690
```

```
Query Match      84.0%; Score 21; DB 11; Length 19286;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GGTTCAGTGTAGCCGAGATTA 21
Db      5393 GGTTCAGTGTAGCCGAGATTA 5413
```

```
RESULT 15
US-09-790-289-1/c
; Sequence 1, Application US/09790289
; Publication No. US20030165826A1
; GENERAL INFORMATION:
; APPLICANT: Caroline Barry
```

```
; APPLICANT: Ilya Chumakov
; TITLE OF INVENTION: PG-3 and Biallelic Markers Thereof
; FILE REFERENCE: 68.US3.REG
; CURRENT APPLICATION NUMBER: US/09/790,289
; CURRENT FILING DATE: 2001-02-23
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patent.pm
; SEQ ID NO 1
; LENGTH: 240825
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..2000
; OTHER INFORMATION: 5'regulatory region
; NAME/KEY: exon
; LOCATION: 2001..2079
; OTHER INFORMATION: exon A
; NAME/KEY: exon
; LOCATION: 4627..4718
; OTHER INFORMATION: exon B
; NAME/KEY: exon
; LOCATION: 10115..10233
; OTHER INFORMATION: exon C
; NAME/KEY: exon
; LOCATION: 26810..26897
; OTHER INFORMATION: exon D
; NAME/KEY: exon
; LOCATION: 31357..31471
; OTHER INFORMATION: exon E
; NAME/KEY: exon
; LOCATION: 34261..34404
; OTHER INFORMATION: exon F
; NAME/KEY: exon
; LOCATION: 37377..37466
; OTHER INFORMATION: exon S
; NAME/KEY: exon
; LOCATION: 39704..40858
; OTHER INFORMATION: exon T
; NAME/KEY: exon
; LOCATION: 50436..50545
; OTHER INFORMATION: exon G
; NAME/KEY: exon
; LOCATION: 72881..72918
; OTHER INFORMATION: exon H
; NAME/KEY: exon
; LOCATION: 75989..76151
; OTHER INFORMATION: exon I
; NAME/KEY: exon
; LOCATION: 95111..95188
; OTHER INFORMATION: exon J
; NAME/KEY: exon
; LOCATION: 216015..216252
; OTHER INFORMATION: exon K
; NAME/KEY: exon
; LOCATION: 237526..238825
; OTHER INFORMATION: exon L
; NAME/KEY: misc.feature
; LOCATION: 238826..240825
; OTHER INFORMATION: 3'regulatory region
; NAME/KEY: allele
; LOCATION: 1999
; OTHER INFORMATION: 5-390-177 : polymorphic base G or C
; NAME/KEY: allele
; LOCATION: 4601
; OTHER INFORMATION: 5-391-43 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 10228
; OTHER INFORMATION: 5-392-222 : polymorphic base G or T
; NAME/KEY: allele
; LOCATION: 10286
; OTHER INFORMATION: 5-392-280 : polymorphic base G or T
; NAME/KEY: allele
```

```

LOCATION: 10370
OTHER INFORMATION: 5-392-364 : insertion of G
NAME/KEY: allele
LOCATION: 39944
OTHER INFORMATION: 4-58-318 : polymorphic base G or T
NAME/KEY: allele
LOCATION: 39973
OTHER INFORMATION: 4-58-289 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 41385
OTHER INFORMATION: 4-54-199 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 41404
OTHER INFORMATION: 4-54-180 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 42232
OTHER INFORMATION: 4-51-312 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 67475
OTHER INFORMATION: 99-86-266 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 69521
OTHER INFORMATION: 4-88-107 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 72838
OTHER INFORMATION: 5-397-141 : polymorphic base G or T
NAME/KEY: allele
LOCATION: 76060
OTHER INFORMATION: 5-398-203 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 81253
OTHER INFORMATION: 99-12738-248 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 83921
OTHER INFORMATION: 99-109-358 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 91917
OTHER INFORMATION: 99-12749-175 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 95349
OTHER INFORMATION: 4-21-154 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 95511
OTHER INFORMATION: 4-21-317 : polymorphic base G or T
NAME/KEY: allele
LOCATION: 96190
OTHER INFORMATION: 4-23-326 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 97294
OTHER INFORMATION: 99-12753-34 : polymorphic base A or T
NAME/KEY: allele
LOCATION: 98024
OTHER INFORMATION: 5-364-252 : polymorphic base G or T
NAME/KEY: allele
LOCATION: 98914
OTHER INFORMATION: 99-12755-280 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 98963
OTHER INFORMATION: 99-12755-329 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 103593
OTHER INFORMATION: 4-87-212 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 104398
OTHER INFORMATION: 99-12757-318 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 106373
OTHER INFORMATION: 99-12758-102 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 106407
OTHER INFORMATION: 99-12758-136 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 108315

```

```

OTHER INFORMATION: 4-105-98 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 108327
OTHER INFORMATION: 4-105-86 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 108472
OTHER INFORMATION: 4-45-49 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 109196
OTHER INFORMATION: 4-44-277 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 114604
OTHER INFORMATION: 4-86-60 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 115716
OTHER INFORMATION: 4-84-334 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 122083
OTHER INFORMATION: 99-78-321 : polymorphic base A or T
NAME/KEY: allele
LOCATION: 123124
OTHER INFORMATION: 99-12767-36 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 123231
OTHER INFORMATION: 99-12767-143 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 123277
OTHER INFORMATION: 99-12767-189 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 123468
OTHER INFORMATION: 99-12767-380 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 126738
OTHER INFORMATION: 4-80-328 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 128210
OTHER INFORMATION: 4-36-384 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 128330
OTHER INFORMATION: 4-36-264 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 128333
OTHER INFORMATION: 4-36-261 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 128594
OTHER INFORMATION: 4-35-333 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 128687
OTHER INFORMATION: 4-35-240 : polymorphic base G or C
NAME/KEY: allele

```

```

Query Match      84.0%: Score 21; DB 12; Length 240825;
Best Local Similarity 100.0%: Pred. No. 0.0016;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy      1 GGTTCAGTGCAGCCGAGATTA 21
Db      54018 GGTTCAGTGCAGCCGAGATTA 53998

```

Search completed: October 9, 2003, 17:54:00
 Job time : 27.2381 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 9, 2003, 15:06:32 ; Search time 2.47619 Seconds
(without alignments)
4456.272 Million cell updates/sec

Title: US-09-784-423-125

Perfect score: 25

Sequence: 1 TGTGCGAGGACCAATTTACAG 25

Scoring table: OLIGO NUC
Gapop 60.0, Gapext 60.0

Searched: 569978 seqs, 220691566 residues

Word size: 0 1139956

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
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C 261	12	48.0	1246	4	US-09-220-132-174	Sequence 174, App	C 334	12	48.0	1991	5	PCT-US93-08742-16	Sequence 16, App1
C 262	12	48.0	1251	3	US-08-867-611-19	Sequence 19, App1	C 335	12	48.0	1997	5	PCT-US93-08808-16	Sequence 16, App1
C 263	12	48.0	1251	5	PCT-US92-06965A-24	Sequence 24, App1	C 336	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
C 264	12	48.0	1274	4	US-09-205-258-77	Sequence 77, App1	C 337	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
C 265	12	48.0	1275	3	US-08-867-611-21	Sequence 21, App1	C 338	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
C 266	12	48.0	1275	5	PCT-US92-06965A-26	Sequence 26, App1	C 339	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
C 267	12	48.0	1290	4	US-09-252-991A-3792	Sequence 3792, App	C 340	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
C 268	12	48.0	1299	1	US-08-678-304-3	Sequence 3, App1	C 341	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
C 269	12	48.0	1329	4	US-09-328-352-1622	Sequence 1622, App	C 342	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
C 270	12	48.0	1332	3	US-09-333-423-1	Sequence 1, App1	C 343	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
C 271	12	48.0	1365	4	US-09-252-991A-289	Sequence 289, App	C 344	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
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C 276	12	48.0	1393	3	US-08-452-071-18	Sequence 18, App1	C 349	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
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C 285	12	48.0	1419	3	US-08-452-071-17	Sequence 17, App1	C 358	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
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C 287	12	48.0	1422	5	PCT-US92-06965A-30	Sequence 30, App1	C 360	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
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C 290	12	48.0	1440	3	US-08-526-840B-174	Sequence 174, App	C 363	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
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C 296	12	48.0	1488	5	PCT-US92-06965A-14	Sequence 14, App1	C 369	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
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C 301	12	48.0	1506	2	US-08-839-008-6	Sequence 6, App1	C 374	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
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C 314	12	48.0	1668	4	US-09-620-312D-127	Sequence 127, App	C 387	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1
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C 319	12	48.0	1713	2	US-08-669-524-2	Sequence 2, App1	C 392	12	48.0	1997	5	PCT-US93-08885-16	Sequence 16, App1

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394	12	48.0	1845	2	US-08-841-178-22	Sequence 22, Appl1	C 467	12	48.0	2553	3	US-08-476-123-3	Sequence 1, Appl1
395	12	48.0	1845	2	US-08-459-595A-5	Sequence 5, Appl1	C 468	12	48.0	2660	4	US-09-634-955B-1	Sequence 1, Appl1
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397	12	48.0	1845	4	US-08-459-444-5	Sequence 5, Appl1	C 470	12	48.0	2747	2	US-08-874-347-1	Sequence 1, Appl1
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399	12	48.0	1851	3	US-08-042-426-3	Sequence 3, Appl1	C 472	12	48.0	2794	4	US-09-513-057C-32	Sequence 32, Appl1
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401	12	48.0	1851	3	US-08-291-238-3	Sequence 3, Appl1	C 474	12	48.0	2907	4	US-09-332-201-52	Sequence 52, Appl1
402	12	48.0	1851	3	US-09-330-760-3	Sequence 3, Appl1	C 475	12	48.0	2907	4	US-09-332-201-52	Sequence 52, Appl1
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404	12	48.0	1851	3	US-09-330-737-3	Sequence 3, Appl1	C 477	12	48.0	2911	4	US-08-961-527-199	Sequence 199, App
405	12	48.0	1851	4	US-09-329-169-3	Sequence 3, Appl1	C 478	12	48.0	2917	3	US-09-332-200-26	Sequence 26, Appl1
406	12	48.0	1851	4	US-09-330-714A-3	Sequence 3, Appl1	C 479	12	48.0	2917	4	US-09-332-197-26	Sequence 26, Appl1
407	12	48.0	1851	4	US-09-328-826-3	Sequence 3, Appl1	C 480	12	48.0	2917	4	US-09-332-201-26	Sequence 26, Appl1
408	12	48.0	1851	4	US-09-289-170-3	Sequence 3, Appl1	C 481	12	48.0	3030	4	US-09-152-060-51	Sequence 51, Appl1
409	12	48.0	1851	5	PCT-US97-06965A-34	Sequence 34, Appl1	C 482	12	48.0	3044	4	US-09-152-060-36	Sequence 36, Appl1
410	12	48.0	1854	4	US-09-107-532A-3174	Sequence 3174, Ap	C 483	12	48.0	3065	4	US-09-171-710-3	Sequence 3, Appl1
411	12	48.0	1858	3	US-08-742-185-96	Sequence 96, Appl1	C 484	12	48.0	3100	4	US-09-423-468A-14	Sequence 14, Appl1
412	12	48.0	1860	4	US-08-912-129A-53	Sequence 53, Appl1	C 485	12	48.0	3189	4	US-09-447-399-1	Sequence 1, Appl1
413	12	48.0	1865	4	US-09-620-312D-539	Sequence 539, App	C 486	12	48.0	3208	3	US-07-972-791-3	Sequence 3, Appl1
414	12	48.0	1868	4	US-08-658-883B-31	Sequence 1, Appl1	C 487	12	48.0	3240	3	US-09-262-773-7	Sequence 7, Appl1
415	12	48.0	1868	4	US-09-676-610B-26	Sequence 26, Appl1	C 488	12	48.0	3264	3	US-09-262-773-5	Sequence 5, Appl1
416	12	48.0	1878	3	US-08-478-097A-31	Sequence 31, Appl1	C 489	12	48.0	3268	3	US-09-262-773-1	Sequence 1, Appl1
417	12	48.0	1878	3	US-09-456-398-51	Sequence 31, Appl1	C 490	12	48.0	3268	3	US-08-977-554-7	Sequence 7, Appl1
418	12	48.0	1886	4	US-09-232-200-30	Sequence 30, Appl1	C 491	12	48.0	3336	2	US-08-978-456-7	Sequence 7, Appl1
419	12	48.0	1896	4	US-09-232-197-30	Sequence 30, Appl1	C 492	12	48.0	3336	3	US-08-978-456-7	Sequence 7, Appl1
420	12	48.0	1896	4	US-09-232-201-30	Sequence 30, Appl1	C 493	12	48.0	3336	3	US-09-225-967-7	Sequence 7, Appl1
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423	12	48.0	1941	4	US-09-252-991A-248	Sequence 248, App	C 496	12	48.0	3336	4	US-09-491-916-5	Sequence 5, Appl1
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430	12	48.0	2061	4	US-09-371-674-1	Sequence 1, Appl1	C 503	12	48.0	3347	1	US-07-972-791-8	Sequence 8, Appl1
431	12	48.0	2065	3	US-09-319-989-5	Sequence 5, Appl1	C 504	12	48.0	3349	4	US-09-775-318-36	Sequence 36, Appl1
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433	12	48.0	2100	3	US-08-913-805A-9	Sequence 9, Appl1	C 506	12	48.0	3378	1	US-07-972-791-1	Sequence 1, Appl1
434	12	48.0	2100	3	US-09-442-629-9	Sequence 9, Appl1	C 507	12	48.0	3405	1	US-08-054-077C-1	Sequence 1, Appl1
435	12	48.0	2122	3	US-08-738-168B-4	Sequence 4, Appl1	C 508	12	48.0	3405	1	US-08-054-077C-1	Sequence 1, Appl1
436	12	48.0	2128	2	US-08-371-377-46	Sequence 16, Appl1	C 509	12	48.0	3430	4	US-09-447-399-3	Sequence 2, Appl1
437	12	48.0	2152	1	US-08-188-582-17	Sequence 17, Appl1	C 510	12	48.0	3434	6	US-08-471-112A-2	Sequence 2, Appl1
438	12	48.0	2152	1	US-08-646-715-17	Sequence 17, Appl1	C 511	12	48.0	3478	3	US-08-530-492-1	Sequence 1, Appl1
439	12	48.0	2217	1	US-08-543-881-1	Sequence 1, Appl1	C 512	12	48.0	3478	3	US-08-906-517-1	Sequence 1, Appl1
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441	12	48.0	2217	5	PCT-US94-00119-1	Sequence 1, Appl1	C 514	12	48.0	3484	3	US-08-906-517-105	Sequence 105, App
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446	12	48.0	2306	5	PCT-US96-00728-3	Sequence 3, Appl1	C 519	12	48.0	3531	3	US-08-906-517-3	Sequence 3, Appl1
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448	12	48.0	2327	2	US-08-835-170-3	Sequence 3, Appl1	C 521	12	48.0	3534	2	US-08-841-178-25	Sequence 25, Appl1
449	12	48.0	2327	4	US-09-359-257-3	Sequence 3, Appl1	C 522	12	48.0	3534	2	US-08-841-178-26	Sequence 26, Appl1
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458	12	48.0	2468	2	US-08-376-843-19	Sequence 19, Appl1	C 531	12	48.0	4332	4	US-09-318-207-107	Sequence 107, App
459	12	48.0	2469	1	US-08-475-500-3	Sequence 3, Appl1	C 532	12	48.0	4382	4	US-09-620-312D-281	Sequence 281, App
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461	12	48.0	2469	1	US-08-453-866-3	Sequence 3, Appl1	C 534	12	48.0	4451	4	US-09-866-503-45	Sequence 45, Appl1
462	12	48.0	2469	1	US-08-185-359-3	Sequence 3, Appl1	C 535	12	48.0	4481	4	US-08-867-611-1	Sequence 1, Appl1
463	12	48.0	2495	4	US-09-668-113A-1	Sequence 1, Appl1	C 536	12	48.0	4481	5	PCT-US92-06965A-6	Sequence 6, Appl1
464	12	48.0	2525	4	US-09-342-648-1	Sequence 1, Appl1	C 537	12	48.0	4562	4	US-09-338-907-118	Sequence 118, App
465	12	48.0	2563	2	US-08-300-584-1	Sequence 1, Appl1	C 538	12	48.0	4562	4	US-09-218-207-118	Sequence 118, App

539	12	48.0	4673	1	US-07-638-431-1	Sequence 1, Appl	C 612	12	48.0	6719	4	US-09-740-235-36	Sequence 36, Appl
540	12	48.0	4673	5	PCT-US92-00018-1	Sequence 1, Appl	C 613	12	48.0	6826	3	US-09-024-020B-8	Sequence 8, Appl
541	12	48.0	4686	3	US-09-338-907-117	Sequence 117, App	C 614	12	48.0	6826	4	US-09-425-043-9	Sequence 8, Appl
542	12	48.0	4686	4	US-09-338-907-117	Sequence 117, App	C 615	12	48.0	6827	1	US-08-347-340-1	Sequence 1, Appl
543	12	48.0	4695	4	US-09-309-572-9	Sequence 9, Appl	C 616	12	48.0	7378	3	US-09-044-428-9	Sequence 9, Appl
544	12	48.0	4695	6	525348-3	Patent No. 525348	C 617	12	48.0	7378	3	US-09-291-238-9	Sequence 9, Appl
545	12	48.0	4707	3	US-09-181-706-1	Sequence 1, Appl	C 618	12	48.0	7378	3	US-09-330-716A-9	Sequence 9, Appl
546	12	48.0	4707	3	US-09-158-791-1	Sequence 1, Appl	C 619	12	48.0	7378	3	US-09-328-472-9	Sequence 9, Appl
547	12	48.0	4707	4	US-09-459-066-1	Sequence 1, Appl	C 620	12	48.0	7378	4	US-09-330-737-9	Sequence 9, Appl
548	12	48.0	4713	3	US-09-068-655-3	Sequence 3, Appl	C 621	12	48.0	7378	4	US-09-329-169-9	Sequence 9, Appl
549	12	48.0	4713	3	US-08-201-697-3	Sequence 3, Appl	C 622	12	48.0	7378	4	US-09-330-716A-9	Sequence 9, Appl
550	12	48.0	4752	1	US-09-620-312D-840	Sequence 840, App	C 623	12	48.0	7378	4	US-09-328-828-9	Sequence 9, Appl
551	12	48.0	4758	4	US-09-218-207-114	Sequence 114, App	C 630	12	48.0	7824	5	US-08-718-388-6	Sequence 1, Appl
552	12	48.0	4775	3	US-09-303-064-37	Sequence 37, Appl	C 625	12	48.0	7577	4	US-08-961-527-46	Sequence 46, Appl
553	12	48.0	4775	4	US-09-086-503-37	Sequence 37, Appl	C 626	12	48.0	7577	3	US-09-028-851-1	Sequence 1, Appl
554	12	48.0	4799	1	US-08-201-697-6	Sequence 6, Appl	C 627	12	48.0	7633	3	US-08-815-520-1	Sequence 1, Appl
555	12	48.0	4815	1	US-08-201-697-5	Sequence 5, Appl	C 628	12	48.0	7633	3	US-09-271-163-1	Sequence 1, Appl
556	12	48.0	4875	3	US-09-338-907-114	Sequence 114, App	C 629	12	48.0	7633	4	US-08-471-112A-1	Sequence 1, Appl
557	12	48.0	4875	4	US-09-218-207-114	Sequence 114, App	C 630	12	48.0	7824	5	US-08-718-388-6	Sequence 1, Appl
558	12	48.0	4896	4	US-09-210-361-3	Sequence 3, Appl	C 632	12	48.0	8001	4	US-09-765-298A-29	Sequence 29, Appl
559	12	48.0	4896	4	US-09-303-064-40	Sequence 40, Appl	C 633	12	48.0	8021	4	US-09-740-235-2	Sequence 2, Appl
560	12	48.0	4910	4	US-09-086-503-40	Sequence 40, Appl	C 634	12	48.0	8051	2	US-08-576-628A-2	Sequence 2, Appl
561	12	48.0	4945	3	US-08-961-527-47	Sequence 47, Appl	C 635	12	48.0	8302	4	US-09-324-827B-1	Sequence 1, Appl
562	12	48.0	4958	3	US-09-338-907-116	Sequence 116, App	C 636	12	48.0	8598	4	US-08-305-790B-1	Sequence 1, Appl
563	12	48.0	4958	4	US-09-218-207-116	Sequence 116, App	C 637	12	48.0	8654	1	US-08-920-827-6	Sequence 6, Appl
564	12	48.0	4986	3	US-09-338-907-121	Sequence 121, App	C 638	12	48.0	8654	1	US-08-920-827-6	Sequence 6, Appl
565	12	48.0	4986	4	US-09-181-207-121	Sequence 121, App	C 639	12	48.0	8654	1	US-08-921-177-6	Sequence 6, Appl
566	12	48.0	5020	3	US-09-338-907-120	Sequence 120, App	C 640	12	48.0	8654	1	US-08-362-577C-6	Sequence 6, Appl
567	12	48.0	5020	4	US-09-218-207-120	Sequence 120, App	C 641	12	48.0	8654	2	US-08-920-828-6	Sequence 6, Appl
568	12	48.0	5044	3	US-09-338-907-115	Sequence 115, App	C 642	12	48.0	9721	3	US-09-345-217-2	Sequence 2, Appl
569	12	48.0	5044	4	US-09-218-207-115	Sequence 115, App	C 643	12	48.0	9827	4	US-09-453-702B-66	Sequence 66, Appl
570	12	48.0	5057	3	US-09-338-907-123	Sequence 123, App	C 644	12	48.0	10079	2	US-08-476-866-20	Sequence 20, Appl
571	12	48.0	5057	4	US-09-218-207-123	Sequence 123, App	C 645	12	48.0	10564	1	US-08-206-176-5	Sequence 5, Appl
572	12	48.0	5100	3	US-09-338-907-122	Sequence 122, App	C 646	12	48.0	12127	4	US-08-961-527-148	Sequence 148, App
573	12	48.0	5100	4	US-09-218-207-122	Sequence 122, App	C 647	12	48.0	14311	3	US-08-646-695-1	Sequence 1, Appl
574	12	48.0	5148	3	US-09-338-907-112	Sequence 112, App	C 648	12	48.0	14311	3	US-08-646-695-1	Sequence 1, Appl
575	12	48.0	5148	4	US-09-218-207-112	Sequence 112, App	C 649	12	48.0	14311	5	PCT-US96-06053-7	Sequence 1, Appl
576	12	48.0	5227	2	US-08-996-306-3	Sequence 3, Appl	C 650	12	48.0	14311	5	PCT-US96-06053-7	Sequence 1, Appl
577	12	48.0	5234	3	US-09-338-907-113	Sequence 113, App	C 651	12	48.0	15297	4	US-09-817-180-3	Sequence 3, Appl
578	12	48.0	5234	4	US-09-218-207-113	Sequence 113, App	C 652	12	48.0	15297	4	US-09-338-907-73	Sequence 73, Appl
579	12	48.0	5245	3	US-09-338-907-3	Sequence 3, Appl	C 653	12	48.0	15666	4	US-09-218-207-73	Sequence 73, Appl
580	12	48.0	5245	4	US-09-218-207-3	Sequence 3, Appl	C 654	12	48.0	15666	4	US-09-218-207-73	Sequence 73, Appl
581	12	48.0	5250	3	US-09-338-907-69	Sequence 69, Appl	C 655	12	48.0	16382	4	US-08-718-388-8	Sequence 8, Appl
582	12	48.0	5250	4	US-09-338-907-69	Sequence 69, Appl	C 656	12	48.0	16382	4	US-09-716-053-7	Sequence 7, Appl
583	12	48.0	5258	3	US-09-303-064-48	Sequence 48, Appl	C 657	12	48.0	17569	4	US-09-702-705-1804	Sequence 1804, App
584	12	48.0	5258	4	US-09-218-207-119	Sequence 119, App	C 658	12	48.0	18627	4	US-08-961-527-113	Sequence 113, App
585	12	48.0	5290	3	US-09-338-907-119	Sequence 119, App	C 659	12	48.0	20137	3	US-09-262-773-9	Sequence 9, Appl
586	12	48.0	5294	4	US-08-826-134-1	Sequence 1, Appl	C 661	12	48.0	23071	3	US-09-262-773-9	Sequence 9, Appl
587	12	48.0	5294	3	US-09-338-907-124	Sequence 124, App	C 662	12	48.0	24417	2	US-08-846-762-1	Sequence 1, Appl
588	12	48.0	5326	3	US-09-338-907-124	Sequence 124, App	C 663	12	48.0	24707	4	US-09-740-027-3	Sequence 3, Appl
589	12	48.0	5326	4	US-09-012-515A-11	Sequence 11, Appl	C 664	12	48.0	25664	4	US-09-346-480A-4	Sequence 4, Appl
590	12	48.0	5330	3	US-08-360-144A-11	Sequence 11, Appl	C 665	12	48.0	25664	4	US-09-346-480A-4	Sequence 4, Appl
591	12	48.0	5330	4	US-09-012-504A-11	Sequence 11, Appl	C 666	12	48.0	25664	4	US-08-781-891-207	Sequence 207, App
592	12	48.0	5330	4	US-09-012-504A-11	Sequence 11, Appl	C 667	12	48.0	25664	4	US-09-618-166-207	Sequence 207, App
593	12	48.0	5330	4	US-09-012-504A-11	Sequence 11, Appl	C 668	12	48.0	31094	4	US-09-820-924-3	Sequence 183, App
594	12	48.0	5332	2	US-08-675-035-3	Sequence 3, Appl	C 669	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
595	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 670	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
596	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 671	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
597	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 672	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
598	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 673	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
599	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 674	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
600	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 675	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
601	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 676	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
602	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 677	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
603	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 678	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
604	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 679	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
605	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 680	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
606	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 681	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
607	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 682	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
608	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 683	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
609	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 684	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
610	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 685	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App
611	12	48.0	5332	4	US-09-675-035-3	Sequence 3, Appl	C 686	12	48.0	34094	4	US-09-820-924-3	Sequence 183, App

685	12	48.0	62804	4	US-09-800-960-3	Sequence 3, Appl1	758	11	44.0	225	4	US-09-252-991A-14093	Sequence 14093, A
C 686	12	48.0	75395	4	US-09-984-890-3	Sequence 3, Appl1	C 759	11	44.0	239	4	US-09-642-703-33	Sequence 83, Appl1
C 687	12	48.0	81001	4	US-09-750-580-1	Sequence 1, Appl1	C 760	11	44.0	241	4	US-09-016-434-83	Sequence 33, Appl1
C 688	12	48.0	111282	4	US-09-754-250-3	Sequence 3, Appl1	C 761	11	44.0	242	4	US-09-506-729-35	Sequence 35, Appl1
C 689	12	48.0	112132	4	US-09-741-150-3	Sequence 3, Appl1	C 762	11	44.0	242	4	US-09-016-434-192	Sequence 192, Appl1
C 690	12	48.0	116592	4	US-09-818-512-3	Sequence 3, Appl1	C 763	11	44.0	250	4	US-08-905-223-232	Sequence 232, Appl1
C 691	12	48.0	116592	4	US-09-818-512-3	Sequence 3, Appl1	C 764	11	44.0	253	4	US-09-016-434-142	Sequence 142, Appl1
C 692	12	48.0	1129908	4	US-09-585-858-1	Sequence 1, Appl1	C 765	11	44.0	253	4	US-09-642-703-37	Sequence 37, Appl1
C 693	12	48.0	148567	4	US-09-801-876B-3	Sequence 3, Appl1	C 766	11	44.0	253	4	US-09-313-294A-3323	Sequence 3323, Ap
C 694	12	48.0	152331	4	US-09-128-155-16	Sequence 16, Appl1	C 767	11	44.0	273	4	US-09-134-001C-2600	Sequence 2600, Ap
C 695	12	48.0	152450	4	US-09-345-882-1	Sequence 1, Appl1	C 768	11	44.0	275	1	US-07-789-919A-1	Sequence 1, Appl1
C 696	12	48.0	169998	4	US-09-676-610B-24	Sequence 24, Appl1	C 769	11	44.0	275	1	US-08-209-846A-1	Sequence 1, Appl1
C 697	12	48.0	176373	3	US-09-128-155-17	Sequence 17, Appl1	C 770	11	44.0	275	2	US-08-472-809E-1	Sequence 1, Appl1
C 698	12	48.0	176373	3	US-09-128-155-17	Sequence 17, Appl1	C 771	11	44.0	275	2	US-08-438-265-1	Sequence 1, Appl1
C 699	12	48.0	197496	4	US-09-877-177A-10	Sequence 10, Appl1	C 772	11	44.0	276	2	US-08-273-146-44	Sequence 44, Appl1
C 700	12	48.0	319608	4	US-09-539-330D-1	Sequence 1, Appl1	C 773	11	44.0	276	2	US-08-273-146-52	Sequence 52, Appl1
C 701	12	48.0	319608	4	US-09-679-409-1	Sequence 1, Appl1	C 774	11	44.0	282	4	US-09-276-625-8	Sequence 8, Appl1
C 702	12	48.0	580073	4	US-08-545-528D-1	Sequence 1, Appl1	C 775	11	44.0	283	4	US-09-313-294A-6167	Sequence 6167, Ap
C 703	12	48.0	580073	4	US-08-916-421B-1	Sequence 1, Appl1	C 776	11	44.0	286	4	US-09-313-294A-5514	Sequence 5514, Ap
C 704	12	48.0	1664976	4	US-09-557-884-1	Sequence 1, Appl1	C 777	11	44.0	286	4	US-09-313-294A-6531	Sequence 6531, Ap
C 705	12	48.0	1830121	4	US-09-643-990A-1	Sequence 1, Appl1	C 778	11	44.0	288	4	US-09-642-703-34	Sequence 34, Appl1
C 706	12	48.0	1830121	4	US-09-643-990A-1	Sequence 1, Appl1	C 779	11	44.0	289	4	US-09-313-294A-824	Sequence 824, Appl1
C 707	11	44.0	20	4	US-09-853-768-19	Sequence 19, Appl1	C 780	11	44.0	289	4	US-09-313-294A-1441	Sequence 1441, Ap
C 708	11	44.0	20	4	US-09-853-768-19	Sequence 19, Appl1	C 781	11	44.0	289	4	US-09-313-294A-3758	Sequence 3758, Ap
C 709	11	44.0	22	2	US-08-888-497-13	Sequence 13, Appl1	C 782	11	44.0	294	4	US-09-313-294A-5431	Sequence 5431, Appl1
C 710	11	44.0	22	5	US-09-362-230-13	Sequence 13, Appl1	C 783	11	44.0	294	4	US-09-107-532A-3482	Sequence 128, Appl1
C 711	11	44.0	22	5	PCT-US94-07926-13	Sequence 13, Appl1	C 784	11	44.0	295	1	US-08-594-031-128	Sequence 4494, Ap
C 712	11	44.0	23	1	US-07-722-798A-77	Sequence 78, Appl1	C 785	11	44.0	299	4	US-09-313-294A-4494	Sequence 4494, Ap
C 713	11	44.0	23	1	US-07-722-798A-78	Sequence 78, Appl1	C 786	11	44.0	300	2	US-08-273-146-68	Sequence 68, Appl1
C 714	11	44.0	25	4	US-09-538-995A-48	Sequence 509, Appl1	C 787	11	44.0	304	4	US-09-313-294A-6625	Sequence 6625, Ap
C 715	11	44.0	25	4	US-09-538-995A-48	Sequence 509, Appl1	C 788	11	44.0	306	4	US-09-313-294A-7797	Sequence 7797, Ap
C 716	11	44.0	33	1	US-08-435-350-112	Sequence 112, Appl1	C 789	11	44.0	314	4	US-09-313-294A-4797	Sequence 4797, Ap
C 717	11	44.0	33	4	US-08-874-102-23	Sequence 23, Appl1	C 790	11	44.0	321	3	US-08-483-749A-25	Sequence 25, Appl1
C 718	11	44.0	33	4	US-08-874-102-24	Sequence 24, Appl1	C 791	11	44.0	330	2	US-08-672-345E-85	Sequence 85, Appl1
C 719	11	44.0	33	4	US-08-984-919A-23	Sequence 23, Appl1	C 792	11	44.0	330	3	US-09-214-095D-85	Sequence 85, Appl1
C 720	11	44.0	36	3	US-08-984-919A-24	Sequence 24, Appl1	C 793	11	44.0	330	4	US-09-107-532A-824	Sequence 824, Appl1
C 721	11	44.0	45	4	US-08-341-560B-21	Sequence 21, Appl1	C 794	11	44.0	331	4	US-09-404-879A-1131	Sequence 131, Appl1
C 722	11	44.0	45	4	US-08-874-102-51	Sequence 51, Appl1	C 795	11	44.0	341	4	US-09-338-933-131	Sequence 131, Appl1
C 723	11	44.0	45	4	US-08-874-102-53	Sequence 53, Appl1	C 796	11	44.0	341	4	US-09-215-681-131	Sequence 131, Appl1
C 724	11	44.0	45	4	US-08-984-919A-51	Sequence 51, Appl1	C 797	11	44.0	345	3	US-08-513-974A-40	Sequence 40, Appl1
C 725	11	44.0	47	4	US-08-984-919A-53	Sequence 53, Appl1	C 798	11	44.0	345	4	US-09-461-436A-40	Sequence 40, Appl1
C 726	11	44.0	52	4	US-09-432-978-2198	Sequence 2198, Ap	C 799	11	44.0	346	1	US-08-263-413-13	Sequence 13, Appl1
C 727	11	44.0	54	1	US-09-609-816-16	Sequence 16, Appl1	C 800	11	44.0	346	3	US-09-328-113-1429	Sequence 429, Appl1
C 728	11	44.0	54	1	US-08-363-240A-1074	Sequence 1074, Ap	C 801	11	44.0	350	1	US-08-263-413-12	Sequence 12, Appl1
C 729	11	44.0	54	1	US-08-758-306-498	Sequence 498, Appl1	C 802	11	44.0	350	2	US-08-967-101-35	Sequence 35, Appl1
C 730	11	44.0	54	2	US-08-585-684B-2642	Sequence 1338, Ap	C 803	11	44.0	350	2	US-08-592-541-35	Sequence 35, Appl1
C 731	11	44.0	54	3	US-09-038-073-2642	Sequence 2642, Ap	C 804	11	44.0	350	3	US-09-124-698-35	Sequence 35, Appl1
C 732	11	44.0	54	4	US-09-584-040-8248	Sequence 8248, Ap	C 805	11	44.0	350	3	US-09-127-480-35	Sequence 35, Appl1
C 733	11	44.0	54	4	US-09-371-772B-11155	Sequence 11155, A	C 806	11	44.0	350	3	US-08-96-841C-35	Sequence 35, Appl1
C 734	11	44.0	68	1	US-07-934-373C-14	Sequence 14, Appl1	C 807	11	44.0	350	4	US-09-124-523-35	Sequence 35, Appl1
C 735	11	44.0	68	3	US-08-437-642B-14	Sequence 14, Appl1	C 808	11	44.0	350	4	US-09-636-796A-35	Sequence 35, Appl1
C 736	11	44.0	68	4	US-08-146-206C-14	Sequence 14, Appl1	C 809	11	44.0	357	1	US-08-431-048E-35	Sequence 35, Appl1
C 737	11	44.0	68	5	PCT-US93-07832-14	Sequence 14, Appl1	C 810	11	44.0	357	1	US-08-203-905B-5	Sequence 5, Appl1
C 738	11	44.0	100	1	US-07-795-859B-17	Sequence 17, Appl1	C 811	11	44.0	366	3	US-08-341-560B-3	Sequence 3, Appl1
C 739	11	44.0	100	1	US-08-457-616-17	Sequence 17, Appl1	C 812	11	44.0	366	3	US-08-353-940-3	Sequence 3, Appl1
C 740	11	44.0	108	4	US-09-000-094-25	Sequence 25, Appl1	C 813	11	44.0	366	5	PCT-US93-03895-3	Sequence 3, Appl1
C 741	11	44.0	120	4	US-08-874-102-30	Sequence 30, Appl1	C 814	11	44.0	367	3	US-09-385-982-193	Sequence 193, Appl1
C 742	11	44.0	120	4	US-08-874-102-31	Sequence 31, Appl1	C 815	11	44.0	376	4	US-09-220-132-128	Sequence 128, Appl1
C 743	11	44.0	120	4	US-08-984-919A-30	Sequence 30, Appl1	C 816	11	44.0	387	3	US-09-046-894-1	Sequence 1, Appl1
C 744	11	44.0	120	4	US-08-984-919A-31	Sequence 31, Appl1	C 817	11	44.0	389	4	US-09-702-705-417	Sequence 417, Appl1
C 745	11	44.0	138	4	US-09-702-705-641	Sequence 641, Appl1	C 818	11	44.0	389	4	US-09-736-457-417	Sequence 417, Appl1
C 746	11	44.0	138	4	US-09-736-457-641	Sequence 641, Appl1	C 819	11	44.0	391	1	US-08-592-126-83	Sequence 83, Appl1
C 747	11	44.0	143	4	US-08-874-102-37	Sequence 27, Appl1	C 820	11	44.0	391	4	US-09-168-595-83	Sequence 83, Appl1
C 748	11	44.0	143	4	US-08-874-102-39	Sequence 29, Appl1	C 821	11	44.0	396	3	US-08-513-974B-324	Sequence 324, Appl1
C 749	11	44.0	143	4	US-08-984-919A-27	Sequence 27, Appl1	C 822	11	44.0	396	3	US-08-513-974B-378	Sequence 378, Appl1
C 750	11	44.0	143	4	US-08-984-919A-29	Sequence 29, Appl1	C 823	11	44.0	396	4	US-08-887-534A-21	Sequence 21, Appl1
C 751	11	44.0	183	4	US-09-107-532A-624	Sequence 624, Appl1	C 824	11	44.0	396	4	US-09-527-431-21	Sequence 21, Appl1
C 752	11	44.0	198	2	US-08-588-258B-18	Sequence 18, Appl1	C 825	11	44.0	399	4	US-09-702-705-491	Sequence 491, Appl1
C 753	11	44.0	198	5	US-08-460-505-13	Sequence 18, Appl1	C 826	11	44.0	399	4	US-09-736-457-491	Sequence 491, Appl1
C 754	11	44.0	198	5	PCT-US96-08295-18	Sequence 18, Appl1	C 827	11	44.0	405	1	US-08-398-613A-49	Sequence 49, Appl1
C 755	11	44.0	202	4	US-09-157-270-6	Sequence 6, Appl1	C 828	11	44.0	405	1	US-08-398-611A-49	Sequence 49, Appl1
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C 757	11	44.0	203	4	US-09-157-270-14	Sequence 14, Appl1	C 830	11	44.0	405	1	US-08-396-851A-49	Sequence 49, Appl1

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832	11	44.0	405	1	US-08-436-717-26	Sequence 26, Appl	905	11	44.0	533	3	US-09-328-111-469	Sequence 469, App
833	11	44.0	405	2	US-08-491-334A-49	Sequence 49, Appl	906	11	44.0	536	3	US-08-349-403-3	Sequence 3, Appl1
834	11	44.0	405	3	US-09-027-449-36	Sequence 36, Appl	C 907	11	44.0	543	3	US-09-098-789-7	Sequence 7, Appl1
835	11	44.0	405	3	US-08-804-444A-36	Sequence 36, Appl	C 908	11	44.0	546	3	US-09-385-982-466	Sequence 466, App
836	11	44.0	405	3	US-09-026-985-36	Sequence 36, Appl	C 909	11	44.0	548	3	US-09-098-789-12	Sequence 12, Appl
837	11	44.0	405	4	US-09-121-952A-36	Sequence 36, Appl	C 910	11	44.0	551	2	US-09-109-266-3	Sequence 3, Appl1
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839	11	44.0	405	4	US-09-252-991A-8583	Sequence 8583, Ap	C 912	11	44.0	557	3	US-09-360-220-16	Sequence 16, Appl
840	11	44.0	405	4	US-09-252-991A-12487	Sequence 12487, A	C 913	11	44.0	557	3	US-09-385-982-395	Sequence 395, App
841	11	44.0	414	4	US-09-107-532A-1862	Sequence 1862, Ap	C 914	11	44.0	558	3	US-09-446-504-69	Sequence 69, Appl
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843	11	44.0	415	4	US-09-736-457-1728	Sequence 1728, Ap	C 916	11	44.0	560	4	US-09-702-705-1378	Sequence 1278, Ap
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847	11	44.0	429	2	US-08-448-438-9	Sequence 9, Appl1	C 920	11	44.0	561	4	US-09-328-352-1091	Sequence 1091, Ap
848	11	44.0	429	2	US-08-448-438-10	Sequence 10, Appl	C 921	11	44.0	566	4	US-09-495-050A-132	Sequence 132, Appl
849	11	44.0	429	2	US-08-448-438-11	Sequence 11, Appl	C 922	11	44.0	567	4	US-09-328-352-736	Sequence 736, App
850	11	44.0	429	2	US-08-448-438-12	Sequence 12, Appl	C 923	11	44.0	574	3	US-09-385-982-419	Sequence 419, App
851	11	44.0	435	3	US-09-096-244-1	Sequence 1, Appl1	C 924	11	44.0	574	4	US-09-149-476-276	Sequence 276, App
852	11	44.0	435	3	US-09-252-991A-742	Sequence 742, App	C 925	11	44.0	576	4	US-09-702-705-657	Sequence 657, App
853	11	44.0	438	1	US-08-703-905B-22	Sequence 22, Appl	C 926	11	44.0	576	4	US-09-736-457-657	Sequence 657, App
854	11	44.0	441	1	US-07-781-254A-8	Sequence 8, Appl1	C 927	11	44.0	577	4	US-09-016-434-829	Sequence 829, App
855	11	44.0	441	1	US-08-325-071-68	Sequence 68, Appl	C 928	11	44.0	582	4	US-09-149-476-137	Sequence 137, App
856	11	44.0	441	3	US-08-461-004A-68	Sequence 68, Appl	C 929	11	44.0	582	4	US-09-702-705-482	Sequence 482, App
857	11	44.0	441	3	US-08-998-416-200	Sequence 200, App	C 930	11	44.0	582	4	US-09-736-457-482	Sequence 482, App
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859	11	44.0	451	4	US-09-679-409-49	Sequence 49, Appl	C 932	11	44.0	587	4	US-09-461-322-123	Sequence 123, Appl
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862	11	44.0	470	3	US-08-840-146-9	Sequence 9, Appl1	C 935	11	44.0	603	3	US-09-385-982-233	Sequence 233, App
863	11	44.0	470	3	US-09-360-220-9	Sequence 9, Appl1	C 936	11	44.0	603	4	US-09-107-533A-992	Sequence 992, App
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866	11	44.0	471	4	US-09-277-700-5	Sequence 5, Appl1	C 939	11	44.0	607	3	US-09-385-982-371	Sequence 371, App
867	11	44.0	471	4	US-09-328-352-404	Sequence 404, App	C 940	11	44.0	610	4	US-09-149-476-121	Sequence 121, App
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869	11	44.0	476	4	US-09-389-681-305	Sequence 305, App	C 942	11	44.0	611	3	US-08-896-164-68	Sequence 68, Appl
870	11	44.0	476	4	US-09-620-405B-305	Sequence 305, App	C 943	11	44.0	612	3	US-09-385-982-409	Sequence 409, App
871	11	44.0	476	4	US-09-339-338-305	Sequence 305, App	C 944	11	44.0	613	3	US-09-385-982-219	Sequence 219, App
872	11	44.0	476	4	US-09-433-826B-305	Sequence 305, App	C 945	11	44.0	615	4	US-09-252-991A-12654	Sequence 12654, A
873	11	44.0	476	4	US-09-604-287A-305	Sequence 305, App	C 946	11	44.0	620	3	US-09-385-982-108	Sequence 108, App
874	11	44.0	483	2	US-08-448-438-13	Sequence 13, Appl	C 947	11	44.0	630	3	US-09-328-111-635	Sequence 635, App
875	11	44.0	483	2	US-08-448-438-14	Sequence 14, Appl	C 948	11	44.0	630	4	US-09-328-352-3951	Sequence 3951, Ap
876	11	44.0	483	2	US-08-448-438-15	Sequence 15, Appl	C 949	11	44.0	631	3	US-09-328-111-633	Sequence 633, App
877	11	44.0	483	2	US-08-448-438-16	Sequence 16, Appl	C 950	11	44.0	631	4	US-09-702-705-553	Sequence 553, App
878	11	44.0	487	2	US-08-422-719-26	Sequence 26, Appl	C 951	11	44.0	631	4	US-09-736-457-553	Sequence 553, App
879	11	44.0	487	2	US-08-470-925-26	Sequence 26, Appl	C 952	11	44.0	633	3	US-09-328-111-48	Sequence 48, Appl
880	11	44.0	487	2	US-08-471-613-26	Sequence 26, Appl	C 953	11	44.0	642	4	US-09-252-991A-12794	Sequence 12794, A
881	11	44.0	487	5	PCT-US93-10443-26	Sequence 26, Appl	C 954	11	44.0	654	4	US-09-328-111-188	Sequence 188, App
882	11	44.0	499	1	US-07-916-034-16	Sequence 16, Appl	C 955	11	44.0	654	4	US-09-252-991A-13109	Sequence 13109, A
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886	11	44.0	506	1	US-08-111-316-1	Sequence 1, Appl1	C 959	11	44.0	664	3	US-09-328-111-781	Sequence 781, App
887	11	44.0	507	4	US-09-495-050A-199	Sequence 199, App	C 960	11	44.0	665	3	US-08-896-164-43	Sequence 43, Appl
888	11	44.0	514	4	US-09-222-575-98	Sequence 98, Appl	C 961	11	44.0	672	4	US-09-149-476-38	Sequence 38, Appl
889	11	44.0	514	4	US-09-389-681-98	Sequence 98, Appl	C 962	11	44.0	676	4	US-09-221-017B-72	Sequence 72, Appl
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892	11	44.0	514	4	US-09-433-826B-98	Sequence 98, Appl	C 965	11	44.0	677	3	US-08-785-271-7	Sequence 7, Appl1
893	11	44.0	514	4	US-09-604-287A-98	Sequence 98, Appl	C 966	11	44.0	678	4	US-09-252-991A-14217	Sequence 14217, A
894	11	44.0	521	4	US-09-643-597-322	Sequence 322, App	C 967	11	44.0	684	3	US-09-181-183-31	Sequence 31, Appl
895	11	44.0	521	4	US-09-404-879A-128	Sequence 128, App	C 968	11	44.0	684	4	US-09-280-040-31	Sequence 31, Appl
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898	11	44.0	521	4	US-09-542-615A-322	Sequence 322, App	C 971	11	44.0	686	4	US-08-858-207A-155	Sequence 155, App
899	11	44.0	521	4	US-09-215-681-128	Sequence 128, App	C 972	11	44.0	705	3	US-08-781-420-8	Sequence 8, Appl1
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901	11	44.0	522	4	US-09-252-991A-1145	Sequence 1145, Ap	C 974	11	44.0	705	4	US-08-874-102-8	Sequence 8, Appl1
902	11	44.0	528	4	US-09-252-991A-9004	Sequence 9004, Ap	C 975	11	44.0	705	4	US-08-874-102-9	Sequence 9, Appl1
903	11	44.0	531	1	US-08-340-539A-5	Sequence 5, Appl1	C 976	11	44.0	705	4	US-08-984-919A-8	Sequence 8, Appl1

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c 981 11 44.0 707 2 US-08-465-380-37 Sequence 37, Appl1
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c 998 11 44.0 707 4 US-09-006-595A-5 Sequence 5, Appl1
c 999 11 44.0 707 4 US-09-006-595A-7 Sequence 7, Appl1
c1000 11 44.0 707 4 US-09-249-473-37 Sequence 37, Appl1

ALIGNMENTS

RESULT 1
US-09-018-584A-125
Sequence 125, Application US/09018584A

Patent No. 6238863

GENERAL INFORMATION:

APPLICANT: Schumm, James W.

TITLE OF INVENTION: MATERIALS AND METHODS FOR

TITLE OF INVENTION: IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Promega Corporation

STREET: 2800 Woods Hollow Road

CITY: Madison

STATE: Wisconsin

COUNTRY: U.S.A.

ZIP: 53711-5399

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb

COMPUTER: IBM compatible PC

OPERATING SYSTEM: Windows 95

SOFTWARE: Word 97 (DOS text format)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/018,584A

FILING DATE: 04-Feb-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Grady J. Frenchick

REGISTRATION NUMBER: 29,018

REFERENCE/DOCKET NUMBER: 16026.9180

TELECOMMUNICATION INFORMATION:

TELEPHONE: (608) 257-3501

TELEFAX: (608) 257-2275

INFORMATION FOR SEQ ID NO: 125:

SEQUENCE CHARACTERISTICS:

LENGTH: 25

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

US-09-018-584A-125

Query Match 100.0%; Score 25; DB 3; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.4e-05;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGTGCCAGAACCAAAATTACAG 25
Db 1 TGTGCCAGAACCAAAATTACAG 25

RESULT 2

US-09-018-584A-32/c

Sequence 32, Application US/09018584A

Patent No. 6238863

GENERAL INFORMATION:

APPLICANT: Schumm, James W.

TITLE OF INVENTION: MATERIALS AND METHODS FOR

TITLE OF INVENTION: IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Promega Corporation

STREET: 2800 Woods Hollow Road

CITY: Madison

STATE: Wisconsin

COUNTRY: U.S.A.

ZIP: 53711-5399

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb

COMPUTER: IBM compatible PC

OPERATING SYSTEM: Windows 95

SOFTWARE: Word 97 (DOS text format)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/018,584A

FILING DATE: 04-Feb-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Grady J. Frenchick

REGISTRATION NUMBER: 29,018

REFERENCE/DOCKET NUMBER: 16026.9180

TELECOMMUNICATION INFORMATION:

TELEPHONE: (608) 257-3501

TELEFAX: (608) 257-2275

INFORMATION FOR SEQ ID NO: 32:

SEQUENCE CHARACTERISTICS:

LENGTH: 1000 bp

TYPE: Nucleic Acid

STRANDEDNESS: Double

TOPOLOGY: Circular

MOLECULE TYPE: Genomic DNA

HYPOTHETICAL: no

IMMEDIATE SOURCE:

CLONE: S132

POSITION IN GENOME:

CHROMOSOME/SEGMENT: 22

US-09-018-584A-32

Query Match 100.0%; Score 25; DB 3; Length 1000;
Best Local Similarity 100.0%; Pred. No. 1.5e-05;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTGCCAGAACCAAAATTACAG 25

Db 726 TGTGCCAGAACCAAAATTACAG 702

US-09-341-587-7

Sequence 7, Application US/09341587

Patent No. 6346606

GENERAL INFORMATION:

APPLICANT: Mollenhauer, Jan

TITLE OF INVENTION: Protein containing an SRCR Domain

FILE REFERENCE: 4121-108

CURRENT APPLICATION NUMBER: US/09/341,587

;; CURRENT FILING DATE: 1999-08-31
;; EARLIER APPLICATION NUMBER: PCT/DE98/00096
;; EARLIER FILING DATE: 1998-01-09
;; NUMBER OF SEQ ID NOS: 12
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO: 7
;; LENGTH: 28720
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-341-587-7

Query Match 60.0%; Score 15; DB 4; Length 28720;
Best Local Similarity 100.0%; Pred. No. 8.1;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CAGAACGAGAAATT 20
Db 5047 CAGAACGAGAAATT 5061

RESULT 4
US-08-981-030-2
; Sequence 2, Application US/08981030
; Patent No. 6447783
; GENERAL INFORMATION:

;; APPLICANT:
;; TITLE OF INVENTION: FGF9 AS A SPECIFIC LIGAND FOR FGFR3
;; NUMBER OF SEQUENCES: 13
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/981,030
;; FILING DATE:

;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: WO PCT/IL96/00011
;; FILING DATE: 12-JUN-1996
;; INFORMATION FOR SEQ ID NO: 2:

;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 627 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; ORIGINAL SOURCE:
;; ORGANISM: Mus pahari
US-08-981-030-2

Query Match 56.0%; Score 14; DB 4; Length 627;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 ACCAGAAATTACA 24
Db 542 ACCAGAAATTACA 555

RESULT 5
US-08-981-030-12
; Sequence 12, Application US/08981030
; Patent No. 6447783
; GENERAL INFORMATION:

;; APPLICANT:
;; TITLE OF INVENTION: FGF9 AS A SPECIFIC LIGAND FOR FGFR3
;; NUMBER OF SEQUENCES: 13
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS

;; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/981,030
;; FILING DATE:
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: WO PCT/IL96/00011
;; FILING DATE: 12-JUN-1996
;; INFORMATION FOR SEQ ID NO: 12:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 627 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; ORIGINAL SOURCE:
;; ORGANISM: Rattus norvegicus
US-08-981-030-12

Query Match 56.0%; Score 14; DB 4; Length 627;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 ACCAGAAATTACA 24
Db 542 ACCAGAAATTACA 555

RESULT 6
US-08-981-030-1
; Sequence 1, Application US/08981030
; Patent No. 6447783
; GENERAL INFORMATION:

;; APPLICANT:
;; TITLE OF INVENTION: FGF9 AS A SPECIFIC LIGAND FOR FGFR3
;; NUMBER OF SEQUENCES: 13
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/981,030
;; FILING DATE:

;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: WO PCT/IL96/00011
;; FILING DATE: 12-JUN-1996
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 682 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
US-08-981-030-1

Query Match 56.0%; Score 14; DB 4; Length 682;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 ACCAGAAATTACA 24
Db 597 ACCAGAAATTACA 610

RESULT 7
US-08-289-458-3
; Sequence 3, Application US/08289458
; Patent No. 5608144
; GENERAL INFORMATION:

;; APPLICANT: BADEN, Catherine S., DUNSMUIR, Pamela,
;; TITLE OF INVENTION: PLANT GP2 PROMOTERS AND USES THEREOF

```

; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: Stewart Street Tower, One Market Plaza
; CITY: San Francisco
; STATE: California
; COUNTRY: US
; ZIP: 94105-1493
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/289,458
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Dow, Karen B.
; REGISTRATION NUMBER: 29,684
; REFERENCE/DOCKET NUMBER: 12176-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1727 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CAAT_signal
; LOCATION: 1100..1103
; FEATURE:
; NAME/KEY: TATA_signal
; LOCATION: 1139..1146
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1169
; OTHER INFORMATION: /note= "Transcriptional start site"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1172
; OTHER INFORMATION: /note= "pgp50 5' end"
; FEATURE:
; NAME/KEY: TATA_signal
; LOCATION: 1139..1146
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1234..1236
; OTHER INFORMATION: /note= "Translation start codon"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1298
; OTHER INFORMATION: /note= "Intron start site"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..1233
; OTHER INFORMATION: /note= "Gp2 promoter sequence"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..1727
; OTHER INFORMATION: /note= "Gp2 Genomic DNA clone"
; US-08-289-458-3

Query Match 56.0%; Score 14; DB 1; Length 1727;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GGAACCGAATTT 21
Db 1619 GGAACCGAATTT 1632

RESULT 8
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; US-08-761-549-3
; Sequence 3, Application US/08761549
; Patent No. 5981727
; GENERAL INFORMATION:
; APPLICANT: BADEN, Catherine S., DUNSMUIR, Pamela,
; APPLICANT: LEE, Kathleen Y.
; TITLE OF INVENTION: PLANT Gp2 PROMOTERS AND USES THEREOF
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: Stewart Street Tower, One Market Plaza
; CITY: San Francisco
; STATE: California
; COUNTRY: US
; ZIP: 94105-1493
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/761,549
; FILING DATE: 06-DEC-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/289,458
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Dow, Karen B.
; REGISTRATION NUMBER: 29,684
; REFERENCE/DOCKET NUMBER: 12176-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1727 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CAAT_signal
; LOCATION: 1100..1103
; FEATURE:
; NAME/KEY: TATA_signal
; LOCATION: 1139..1146
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1169
; OTHER INFORMATION: /note= "Transcriptional start site"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1172
; OTHER INFORMATION: /note= "pgp50 5' end"
; FEATURE:
; NAME/KEY: TATA_signal
; LOCATION: 1134..1236
; OTHER INFORMATION: /note= "Translation start codon"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1298
; OTHER INFORMATION: /note= "Intron start site"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..1233
; OTHER INFORMATION: /note= "Gp2 promoter sequence"
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..1727
; OTHER INFORMATION: /note= "Gp2 Genomic DNA clone"
; US-08-761-549-3
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Query Match 56.0%; Score 14; DB 2; Length 1727;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GGACCGAAGAAATT 21
Db 1619 GGACCGAAGAAATT 1632

RESULT 9
US-09-127-646-3
Sequence 3, Application US/09127646
Patent No. 6291744
GENERAL INFORMATION:
APPLICANT: Baden, Catherine S.
APPLICANT: Dunsmlir, Pamela
APPLICANT: Lee, Kathleen Y.
APPLICANT: DNA Plant Technology Corporation
TITLE OF INVENTION: Nucleic Acids Encoding Plant Group 2 Proteins and Uses
FILE REFERENCE: 012176-004020US
CURRENT APPLICATION NUMBER: US/09/127,646
CURRENT FILING DATE: 1998-07-31
EARLIER APPLICATION NUMBER: US 08/289,458
EARLIER FILING DATE: 1994-08-12
EARLIER APPLICATION NUMBER: US 08/761,549
EARLIER FILING DATE: 1996-12-06
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGTH: 1727
TYPE: DNA
ORGANISM: Capsicum annuum
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1727)
OTHER INFORMATION: pepper plant Group 2 (gp2) genomic DNA clone
FEATURE:
NAME/KEY: promoter
LOCATION: (1)..(1233)
OTHER INFORMATION: Gp2 promoter sequence
FEATURE:
NAME/KEY: CAAT signal
LOCATION: (1100)..(1103)
FEATURE:
NAME/KEY: TATA signal
LOCATION: (1135)..(1146)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1169)
OTHER INFORMATION: transcriptional start site
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1172)
OTHER INFORMATION: pGP50 5' end
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1234)..(1236)
OTHER INFORMATION: translation start codon
FEATURE:
NAME/KEY: intron
LOCATION: (1298)
OTHER INFORMATION: intron start site
US-09-127-646-3

Query Match 56.0%; Score 14; DB 3; Length 1727;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GGACCGAAGAAATT 21
Db 1619 GGACCGAAGAAATT 1632

RESULT 10
US-08-119-125A-1
Sequence 1, Application US/08119125A
Patent No. 5610011
GENERAL INFORMATION:
APPLICANT: SMITH, Hilda Elizabeth
APPLICANT: VECHT, Uri
TITLE OF INVENTION: DNA Sequences which code for Virulence
TITLE OF INVENTION: Characteristics of Streptococcus suis and parts thereof, polype
TITLE OF INVENTION: Antibodies derived therefrom and the use thereof for the diagn
TITLE OF INVENTION: Protection against infection by S. suis in mammals, including m
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Central Diergeneeskundig Instituut
STREET: Edelhertweg 15
CITY: PH Leiden
STATE: The Netherlands
COUNTRY: The Netherlands
ZIP: NL-8219
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS v.6.0
SOFTWARE: Wordperfect v. 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/119,125A
FILING DATE: 20-SEP-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/NL92/00054
FILING DATE: 19-MAR-1992
APPLICATION NUMBER: NL 9100510
FILING DATE: 21-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Handal, Anthony H.
REGISTRATION NUMBER: 26275
REFERENCE/DOCKET NUMBER: SMITHHE119125
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 838-8589
TELEFAX: (203) 838-8794
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4376 base pairs
TYPE: Nucleic acid with corresponding amino acids
STRANDEDNESS: single stranded
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
ORIGINAL SOURCE:
ORGANISM: Streptococcus suis type II (pathogenic)
FEATURE:
OTHER INFORMATION: Extracellular protein factor (EF) gene
FEATURE:
NAME/KEY: promoter -35 region
LOCATION: bp 66 to 71
FEATURE:
NAME/KEY: promoter -10 region
LOCATION: bp 89 to 94
FEATURE:
NAME/KEY: promoter -35 region
LOCATION: bp 153 to 158
FEATURE:
NAME/KEY: promoter -10 region
LOCATION: bp 176 to 181
FEATURE:
NAME/KEY: ribosome binding site
LOCATION: bp 350 to 356
FEATURE:
NAME/KEY: signal peptide
LOCATION: bp 361 to 498
FEATURE:
NAME/KEY: mature peptide
LOCATION: bp 499 to 2890

FEATURE:
NAME/KEY: dyad symmetry regions
LOCATION: from bp 4186 to 4198 and from bp 4203 to 4215
FEATURE:
NAME/KEY: dyad symmetry regions
LOCATION: from bp 4243 to 4257 and from bp 4263 to 4276
US-08-119-125A-1

Query Match 56.0%; Score 14; DB 1; Length 4376;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CAGAACCGAGAAAT 19
DB 314 CAGAACCGAGAAAT 327

RESULT 11
US-08-119-125A-2
Sequence 2, Application US/08119125A
Patent No. 5610011
GENERAL INFORMATION:
APPLICANT: SMITH, Hilda Elizabeth
APPLICANT: VECOT, Uri
TITLE OF INVENTION: DNA sequences which code for virulence
TITLE OF INVENTION: Characteristics of Streptococcus suis and parts thereof, poly
TITLE OF INVENTION: antibodies derived therefrom and the use thereof for the diagn
TITLE OF INVENTION: protection against infection by S. suis in mammals, including
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Central Diegeneskundig Instituut
STREET: Edelherweg 15
CITY: PH Lelystad
STATE:
COUNTRY: The Netherlands
ZIP: NL-8219
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS V.6.0
SOFTWARE: Wordperfect V. 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/119,125A
FILING DATE: 20-SEP-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/NL92/00054
FILING DATE: 19-MAR-1992
APPLICATION NUMBER: NL 9100510
FILING DATE: 21-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Handal, Anthony H.
REGISTRATION NUMBER: 26275
REFERENCE/DOCKET NUMBER: SMITHHE119125
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 838-8589
TELEFAX: (203) 838-8794
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 6744 base pairs
TYPE: Nucleic acid with corresponding amino acids
STRANDEDNESS: single stranded
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
ORIGINAL SOURCE:
ORGANISM: Streptococcus suis type II (pathogenic)
FEATURE:
OTHER INFORMATION: Extracellular factor related protein (EF*) gene
NAME/KEY: promoter -35 region
LOCATION: bp 66 to 71
FEATURE:
NAME/KEY: promoter -10 region

LOCATION: bp 89 to 94
FEATURE:
NAME/KEY: promoter -35 region
LOCATION: bp 153 to 158
FEATURE:
NAME/KEY: promoter -10 region
LOCATION: bp 176 to 181
FEATURE:
NAME/KEY: ribosome binding site
LOCATION: bp 350 to 356
FEATURE:
NAME/KEY: signal peptide
LOCATION: bp 361 to 498
FEATURE:
NAME/KEY: start of repetitive units R1-R11
LOCATION: bp 2669, 3097, 3292, 3520, 4087, 4381, 4609, 4837,
LOCATION: 5065, 5293, 5521:
FEATURE:
NAME/KEY: start of repetitive Asn-Pro-Asn-Leu sequences
LOCATION: bp 2932, 3160, 3355, 3583, 4150, 4444, 4672, 4900,
LOCATION: 5128, 5356, 5584:
FEATURE:
NAME/KEY: dyad symmetry regions
LOCATION: from bp 6554 to 6586 and from bp 6571 to 6583
FEATURE:
NAME/KEY: dyad symmetry regions
LOCATION: from bp 6611 to 6625 and from bp 6631 to 6644
US-08-119-125A-2

Query Match 56.0%; Score 14; DB 1; Length 6744;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CAGAACCGAGAAAT 19
DB 314 CAGAACCGAGAAAT 327

RESULT 12
US-08-639-857-23
Sequence 23, Application US/08639857
Patent No. 595318
GENERAL INFORMATION:
APPLICANT: Simons, J. N.
APPLICANT: Desai, S. M.
APPLICANT: Mushawar, I. K.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR CONTROLLING THE
TITLE OF INVENTION: TRANSLATION OF HEPATITIS GB PROTEINS
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Rd
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/639,857
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Porembski, Priscilla E.
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5793.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-937-0378
TELEFAX: 708-938-2623
INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:
LENGTH: 9493 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-639-857-23

Query Match 56.0%; Score 14; DB 2; Length 9493;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTGCCAGGACCA 14
Db 4037 TGTGCCAGGACCA 4050

RESULT 13
US-08-469-260A-163
Sequence 163, Application US/08469260A
Patent No. 6451578

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS
APPLICANT: TAMI J. PILOT-MATTIAS
APPLICANT: GEORGE J. DAMSON
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: SURESH M. DESAI
APPLICANT: THOMAS P. LEARY
APPLICANT: ANTHONY SCOTT MUEHROFF
APPLICANT: JAMES C. ERKER
APPLICANT: SHERI L. BUIJK
APPLICANT: ISA K. MUSHAWAR
TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT LABORATORIES D377/AP6D
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
STATE: IL
COUNTRY: USA
ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,260A

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/424,550

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: FOREMSKI, PRISCILLA E.

REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 5527.PC.01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-937-6365

TELEFAX: 708-938-2623

INFORMATION FOR SEQ ID NO: 163:

SEQUENCE CHARACTERISTICS:

LENGTH: 9493 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-469-260A-163

Query Match 56.0%; Score 14; DB 4; Length 9493;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTGCCAGGACCA 14
Db 4037 TGTGCCAGGACCA 4050

RESULT 14
US-08-488-446-163
Sequence 163, Application US/08488446
Patent No. 6558898

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS
APPLICANT: TAMI J. PILOT-MATTIAS
APPLICANT: GEORGE J. DAMSON
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: SURESH M. DESAI
APPLICANT: THOMAS P. LEARY
APPLICANT: ANTHONY SCOTT MUEHROFF
APPLICANT: JAMES C. ERKER
APPLICANT: SHERI L. BUIJK
APPLICANT: ISA K. MUSHAWAR
TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT LABORATORIES D377/AP6D
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
STATE: IL
COUNTRY: USA
ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,446

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/424,550

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: FOREMSKI, PRISCILLA E.

REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 5527.PC.01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-937-6365

TELEFAX: 708-938-2623

INFORMATION FOR SEQ ID NO: 163:

SEQUENCE CHARACTERISTICS:

LENGTH: 9493 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-488-446-163

Query Match 56.0%; Score 14; DB 4; Length 9493;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTGCCAGGACCA 14
Db 4037 TGTGCCAGGACCA 4050

RESULT 15

US-08-467-344A-163

Sequence 163, Application US/08467344A

Patent No. 6586568

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS
TAMI J. PILOT-MATIAS
GEORGE J. DAMSON
GEORGE G. SCHLAUDER
SURESH M. DESAI
THOMAS P. LEARY
ANTHONY SCOTT MUEHRHOF
JAMES C. ERKER
SHERI L. BUIJK
ISA K. MUSHAMMAR

TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
REAGENTS AND METHODS FOR THEIR USE

NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT LABORATORIES D377/AP6D
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
STATE: IL
COUNTRY: USA
ZIP: 60064-3500

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,344A
FILING DATE: 07-Jun-1995
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/424,550
FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:
NAME: POREBSKI, PRISCILLA E.
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5527.PC.01

TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-938-2623
TELEFAX: 708-937-6365

INFORMATION FOR SEQ ID NO: 163:
SEQUENCE CHARACTERISTICS:
LENGTH: 9493 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 163:
US-08-467-344A-163

Query Match 56.0%; Score 14; DB 4; Length 9493;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTGCCAGGACCA 14
|||||
DB 4037 TGTGCCAGGACCA 4050

Search completed: October 9, 2003, 16:05:52
Job time : 27.4762 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 9, 2003, 15:58:38 ; Search time 8.2381 Seconds
(without alignments)
7874.427 Million cell updates/sec

Title: US-09-784-423-125

Perfect score: 25
Sequence: 1 TGTGCCAGGACCAAGAAATTACAG 25

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 1731049 seqs, 1297405648 residues

Word size : 0

Total number of hits satisfying chosen parameters: 3462098

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 1000 summaries

Database :

Published Applications NA.*
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9: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
15: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
16: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
17: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	25	100.0	25	9	US-09-784-423-125
2	25	100.0	1000	9	US-09-784-423-32
3	17	68.0	624	13	US-10-027-632-311837
4	17	68.0	7273	12	US-10-017-161-1629
5	16	64.0	442	9	US-09-864-761-11479
6	16	64.0	494	13	US-10-027-632-179918
7	16	64.0	624	13	US-10-027-632-220234
8	16	64.0	624	13	US-10-027-632-220235
9	16	64.0	641	13	US-10-027-632-114443
10	16	64.0	1630	13	US-10-027-632-253734
11	16	64.0	1791	12	US-09-814-353-21503
12	15	60.0	538	13	US-10-027-632-81341
13	15	60.0	538	13	US-10-027-632-82646
14	15	60.0	538	13	US-10-027-632-180681
15	15	60.0	538	13	US-10-027-632-301780
16	15	60.0	548	13	US-10-027-632-66186

C 17	15	60.0	548	13	US-10-027-632-299033	Sequence 299033, A
C 18	15	60.0	569	13	US-09-917-800A-198	Sequence 198, App
C 19	15	60.0	598	13	US-10-027-632-232023	Sequence 232023, A
C 20	15	60.0	629	13	US-10-027-632-258272	Sequence 258272, A
C 21	15	60.0	621	13	US-10-027-632-236107	Sequence 236107, A
C 22	15	60.0	653	13	US-10-027-632-23519	Sequence 23519, A
C 23	15	60.0	653	13	US-10-027-632-23520	Sequence 23520, A
C 24	15	60.0	653	13	US-10-027-632-23521	Sequence 23521, A
C 25	15	60.0	653	13	US-10-027-632-23522	Sequence 23522, A
C 26	15	60.0	657	13	US-10-027-632-100289	Sequence 100289, A
C 27	15	60.0	657	13	US-10-027-632-100290	Sequence 100290, A
C 28	15	60.0	1302	9	US-09-815-242-9647	Sequence 9647, App
C 29	15	60.0	2499	12	US-10-032-585-6032	Sequence 6032, App
C 30	15	60.0	11821	10	US-09-764-877-2857	Sequence 2857, App
C 31	15	60.0	15535	10	US-09-764-877-2855	Sequence 2855, App
C 32	15	60.0	106323	10	US-09-803-661-3	Sequence 3, Appli
C 33	15	60.0	106323	10	US-10-300-827-3	Sequence 3, Appli
C 34	15	36.0	193	10	US-09-783-530-430	Sequence 430, App
C 35	14	56.0	376	10	US-09-796-632-3491	Sequence 3491, App
C 36	14	56.0	376	14	US-10-040-862-3491	Sequence 3491, App
C 37	14	56.0	383	13	US-10-027-632-44851	Sequence 44851, A
C 38	14	56.0	383	13	US-10-027-632-73465	Sequence 73465, A
C 39	14	56.0	383	13	US-10-027-632-299150	Sequence 299150, A
C 40	14	56.0	392	12	US-10-437-107-4	Sequence 4, Appli
C 41	14	56.0	392	14	US-10-052-092-4	Sequence 4, Appli
C 42	14	56.0	431	13	US-10-027-632-180271	Sequence 180271, A
C 43	14	56.0	431	13	US-10-027-632-299523	Sequence 299523, A
C 44	14	56.0	450	13	US-10-027-632-83581	Sequence 83581, A
C 45	14	56.0	450	13	US-10-027-632-316138	Sequence 316138, A
C 46	14	56.0	458	11	US-09-918-995-25994	Sequence 25994, A
C 47	14	56.0	483	11	US-09-918-995-32830	Sequence 32830, A
C 48	14	56.0	490	13	US-10-027-632-191150	Sequence 191150, A
C 49	14	56.0	519	13	US-10-027-632-94579	Sequence 94579, A
C 50	14	56.0	519	13	US-10-027-632-307981	Sequence 307981, A
C 51	14	56.0	520	13	US-10-027-632-295870	Sequence 295870, A
C 52	14	56.0	560	13	US-10-027-632-47761	Sequence 47761, A
C 53	14	56.0	590	13	US-10-027-632-277388	Sequence 277388, A
C 54	14	56.0	607	13	US-10-027-632-179391	Sequence 179391, A
C 55	14	56.0	611	13	US-10-027-632-187364	Sequence 187364, A
C 56	14	56.0	611	13	US-10-027-632-187365	Sequence 187365, A
C 57	14	56.0	627	13	US-10-212-357-2	Sequence 2, Appli
C 58	14	56.0	627	13	US-10-212-357-12	Sequence 12, Appli
C 59	14	56.0	632	13	US-10-027-632-45735	Sequence 45735, A
C 60	14	56.0	632	13	US-10-027-632-71874	Sequence 71874, A
C 61	14	56.0	632	13	US-10-027-632-108589	Sequence 108589, A
C 62	14	56.0	632	13	US-10-027-632-238612	Sequence 238612, A
C 63	14	56.0	682	13	US-10-212-357-1	Sequence 1, Appli
C 64	14	56.0	697	13	US-10-027-632-58045	Sequence 58045, A
C 65	14	56.0	697	13	US-10-027-632-59079	Sequence 59079, A
C 66	14	56.0	697	13	US-10-027-632-258189	Sequence 258189, A
C 67	14	56.0	709	13	US-10-027-632-249390	Sequence 249390, A
C 68	14	56.0	737	11	US-09-915-815-1	Sequence 1, Appli
C 69	14	56.0	797	12	US-09-814-353-17991	Sequence 17991, A
C 70	14	56.0	830	13	US-10-027-632-136293	Sequence 136293, A
C 71	14	56.0	830	13	US-10-027-632-136294	Sequence 136294, A
C 72	14	56.0	905	13	US-10-027-632-26489	Sequence 26489, A
C 73	14	56.0	921	13	US-10-027-632-821059	Sequence 821059, A
C 74	14	56.0	955	13	US-10-027-632-84072	Sequence 84072, A
C 75	14	56.0	963	10	US-09-833-381-1948	Sequence 1948, App
C 76	14	56.0	1293	13	US-09-945-577-36	Sequence 36, Appli
C 77	14	56.0	1329	13	US-10-027-632-26489	Sequence 26489, A
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C 79	14	56.0	1957	11	US-09-915-815-6	Sequence 6, Appli
C 80	14	56.0	2104	14	US-10-081-051-98	Sequence 98, Appli
C 81	14	56.0	2273	9	US-09-853-386-110	Sequence 110, Appli
C 82	14	56.0	2273	12	US-09-799-978-21	Sequence 21, Appli
C 83	14	56.0	2331	14	US-10-103-140-1	Sequence 1, Appli
C 84	14	56.0	4573	11	US-09-915-815-16	Sequence 16, Appli
C 85	14	56.0	4573	11	US-09-915-815-17	Sequence 17, Appli
C 86	14	56.0	4836	11	US-09-915-815-23	Sequence 23, Appli
C 87	14	56.0	4847	11	US-09-915-815-22	Sequence 22, Appli
C 88	14	56.0	4873	11	US-09-971-490-4	Sequence 4, Appli
C 89	14	56.0	5042	11	US-09-915-815-20	Sequence 20, Appli

C 90	14	56.0	5042	11	US-09-915-815-21	Sequence 21, Appl	163	13	52.0	487	11	US-09-918-995-12967	Sequence 12967, A
C 91	14	56.0	7965	8	US-08-781-986A-321	Sequence 321, App	164	13	52.0	489	10	US-09-783-599-11922	Sequence 11922, A
C 92	14	56.0	8249	8	US-10-240-965-138	Sequence 138, App	165	13	52.0	492	11	US-09-918-999-37972	Sequence 37972, A
C 93	14	56.0	9433	8	US-08-424-550B-163	Sequence 163, App	166	13	52.0	496	13	US-10-027-632-106169	Sequence 106169, A
C 94	14	56.0	11639	11	US-09-764-891-6233	Sequence 6233, App	167	13	52.0	501	9	US-09-833-790-163	Sequence 163, App
C 95	14	56.0	11639	11	US-10-205-428-601	Sequence 601, App	168	13	52.0	505	13	US-10-027-632-87886	Sequence 87886, A
C 96	14	56.0	12989	14	US-09-764-847-1489	Sequence 1489, App	169	13	52.0	505	13	US-10-027-632-315764	Sequence 315764, A
C 97	14	56.0	12989	14	US-10-092-154-1489	Sequence 1489, App	170	13	52.0	506	10	US-09-783-599-5580	Sequence 5580, App
C 98	14	56.0	21833	14	US-09-764-877-2275	Sequence 2275, App	171	13	52.0	507	13	US-10-027-632-69514	Sequence 69514, A
C 99	14	56.0	31129	14	US-10-298-192-3	Sequence 3, Appl	172	13	52.0	507	13	US-10-027-632-70451	Sequence 70451, A
C 100	14	56.0	157875	11	US-09-935-464-1	Sequence 1, Appl	173	13	52.0	507	13	US-10-027-632-106248	Sequence 106248, A
C 101	14	56.0	157875	11	US-10-125-835-1	Sequence 1, Appl	174	13	52.0	507	13	US-10-027-632-311904	Sequence 311904, A
C 102	14	56.0	17997	10	US-09-922-246-3	Sequence 3, Appl	175	13	52.0	514	14	US-10-198-846-9043	Sequence 9043, App
C 103	14	56.0	250000	12	US-10-225-810-26	Sequence 26, Appl	176	13	52.0	517	13	US-10-027-632-91558	Sequence 91558, A
C 104	14	56.0	684973	10	US-09-263-959-1	Sequence 1, Appl	177	13	52.0	517	13	US-10-027-632-91559	Sequence 91559, A
C 105	14	56.0	1503841	9	US-09-795-668-1	Sequence 1, Appl	178	13	52.0	526	11	US-09-918-999-27090	Sequence 27090, A
C 106	14	56.0	1503841	9	US-09-795-668-1	Sequence 1, Appl	179	13	52.0	527	13	US-10-027-632-105578	Sequence 105578, A
C 107	14	56.0	1503841	10	US-09-946-807-1	Sequence 1, Appl	180	13	52.0	531	10	US-09-974-230-7386	Sequence 7386, App
C 108	13	52.0	24	10	US-09-895-382-6	Sequence 6, Appl	181	13	52.0	531	13	US-10-062-254-119	Sequence 119, App
C 109	13	52.0	25	14	US-10-098-2638-44186	Sequence 44186, A	182	13	52.0	531	13	US-10-027-632-256033	Sequence 256033, A
C 110	13	52.0	60	12	US-09-908-975-6211	Sequence 6211, App	183	13	52.0	533	13	US-10-027-632-292072	Sequence 292072, A
C 111	13	52.0	60	12	US-09-908-975-15231	Sequence 15231, A	184	13	52.0	534	13	US-10-027-632-104732	Sequence 104732, A
C 112	13	52.0	61	9	US-09-785-668-1310	Sequence 1310, App	185	13	52.0	535	10	US-09-834-975-60	Sequence 60, Appl
C 113	13	52.0	61	9	US-09-795-686-1310	Sequence 1310, App	186	13	52.0	536	13	US-10-027-632-111780	Sequence 111780, A
C 114	13	52.0	61	9	US-09-946-807-1310	Sequence 1310, App	187	13	52.0	541	13	US-10-198-846-12267	Sequence 12267, A
C 115	13	52.0	157	10	US-09-878-574-11569	Sequence 11569, A	188	13	52.0	541	9	US-10-040-739-119	Sequence 119, App
C 116	13	52.0	209	10	US-09-960-352-2301	Sequence 2301, App	189	13	52.0	542	9	US-09-864-761-12192	Sequence 12192, A
C 117	13	52.0	212	10	US-09-878-574-14842	Sequence 14842, A	190	13	52.0	544	13	US-10-027-632-18573	Sequence 18573, A
C 118	13	52.0	222	14	US-10-060-036-3057	Sequence 3057, App	191	13	52.0	545	13	US-10-027-632-207581	Sequence 207581, A
C 119	13	52.0	223	9	US-09-864-761-21959	Sequence 21959, A	192	13	52.0	545	13	US-10-027-632-207582	Sequence 207582, A
C 120	13	52.0	247	10	US-09-878-574-6337	Sequence 6337, App	193	13	52.0	546	13	US-10-027-632-174783	Sequence 174783, A
C 121	13	52.0	258	14	US-10-060-036-3749	Sequence 3749, App	194	13	52.0	547	13	US-10-027-632-11032	Sequence 11032, A
C 122	13	52.0	258	14	US-10-060-036-3498	Sequence 3498, App	195	13	52.0	551	13	US-10-027-632-129817	Sequence 129817, A
C 123	13	52.0	261	10	US-09-878-574-10539	Sequence 10539, A	196	13	52.0	552	12	US-09-827-367C-20	Sequence 20, Appl
C 124	13	52.0	262	14	US-10-060-036-3465	Sequence 3465, App	197	13	52.0	559	11	US-09-764-872-565	Sequence 565, App
C 125	13	52.0	269	14	US-10-060-036-3375	Sequence 3375, App	198	13	52.0	562	10	US-09-954-456-216	Sequence 216, App
C 126	13	52.0	269	14	US-10-060-036-4181	Sequence 4181, App	199	13	52.0	562	10	US-09-954-456-882	Sequence 882, App
C 127	13	52.0	270	14	US-10-060-036-3786	Sequence 3786, App	200	13	52.0	563	10	US-09-954-456-1225	Sequence 1225, App
C 128	13	52.0	271	14	US-10-060-036-4488	Sequence 4488, App	201	13	52.0	569	10	US-09-917-800A-1364	Sequence 1364, App
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C 130	13	52.0	273	10	US-09-983-965-117	Sequence 117, App	203	13	52.0	576	14	US-10-106-698-2827	Sequence 2827, App
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C 134	13	52.0	305	14	US-10-060-036-5502	Sequence 502, App	207	13	52.0	593	13	US-10-027-632-216659	Sequence 216659, A
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C 136	13	52.0	361	11	US-09-918-995-37807	Sequence 37807, A	209	13	52.0	606	13	US-10-027-632-237555	Sequence 237555, A
C 137	13	52.0	373	10	US-10-027-632-255134	Sequence 255134, A	210	13	52.0	607	10	US-09-954-456-1890	Sequence 1890, App
C 138	13	52.0	382	13	US-09-960-352-2711	Sequence 2711, App	211	13	52.0	608	13	US-10-027-632-309909	Sequence 309909, App
C 139	13	52.0	395	10	US-09-960-352-4653	Sequence 4653, App	212	13	52.0	608	13	US-10-027-632-309910	Sequence 309910, A
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C 141	13	52.0	397	13	US-10-027-632-38111	Sequence 38111, A	214	13	52.0	611	13	US-10-027-632-228639	Sequence 228639, A
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C 143	13	52.0	404	10	US-09-960-352-7956	Sequence 7956, App	216	13	52.0	611	13	US-10-027-632-320436	Sequence 320436, A
C 144	13	52.0	404	13	US-10-027-632-283405	Sequence 283405, A	217	13	52.0	612	13	US-10-027-632-207347	Sequence 207347, A
C 145	13	52.0	405	9	US-09-864-761-6412	Sequence 6412, App	218	13	52.0	615	9	US-09-778-320-296	Sequence 296, App
C 146	13	52.0	410	13	US-10-027-632-27182	Sequence 27182, A	219	13	52.0	615	9	US-09-910-689-296	Sequence 296, App
C 147	13	52.0	416	10	US-09-960-352-2744	Sequence 2744, App	220	13	52.0	615	9	US-10-010-742-286	Sequence 286, App
C 148	13	52.0	433	11	US-09-918-995-3345	Sequence 3345, App	221	13	52.0	616	13	US-10-027-632-42756	Sequence 42756, A
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C 152	13	52.0	450	14	US-10-156-781-519	Sequence 519, App	225	13	52.0	617	13	US-10-027-632-214538	Sequence 214538, A
C 153	13	52.0	468	13	US-10-027-632-198706	Sequence 198706, A	226	13	52.0	619	13	US-10-027-632-195593	Sequence 195593, A
C 154	13	52.0	471	13	US-10-027-632-49407	Sequence 49407, A	227	13	52.0	625	13	US-10-027-632-68937	Sequence 68937, A
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C 158	13	52.0	479	13	US-09-878-574-4307	Sequence 4307, App	231	13	52.0	631	10	US-09-864-864-128	Sequence 128, App
C 159	13	52.0	480	13	US-10-027-632-80102	Sequence 80102, A	232	13	52.0	631	13	US-10-027-632-21460	Sequence 21460, A
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C 161	13	52.0	481	9	US-09-864-761-6095	Sequence 6095, App	234	13	52.0	632	13	US-10-027-632-102654	Sequence 102654, A
C 162	13	52.0	481	3	US-10-027-632-193998	Sequence 193998, A	235	13	52.0	635	14	US-10-198-846-9237	Sequence 9237, App

C 236	13	52.0	637	13	US-10-027-632-240073	Sequence 240073, App	C 309	13	52.0	795	14	US-10-198-846-5658	Sequence 5658, App
C 237	13	52.0	637	13	US-10-027-632-240074	Sequence 240074, App	C 310	13	52.0	799	13	US-10-027-632-127838	Sequence 127838, App
C 238	13	52.0	638	13	US-10-027-632-278419	Sequence 278419, App	C 311	13	52.0	799	13	US-10-027-632-127839	Sequence 127839, App
C 239	13	52.0	639	13	US-10-027-632-82558	Sequence 82558, A	C 312	13	52.0	811	13	US-10-027-632-166398	Sequence 166398, App
C 240	13	52.0	639	13	US-10-027-632-302215	Sequence 302215, App	C 313	13	52.0	812	14	US-10-198-846-9245	Sequence 9245, App
C 241	13	52.0	640	13	US-10-027-632-7095	Sequence 7095, App	C 314	13	52.0	813	13	US-10-027-632-160135	Sequence 160135, App
C 242	13	52.0	646	13	US-10-027-632-278388	Sequence 278388, App	C 315	13	52.0	819	13	US-10-027-632-154817	Sequence 154817, App
C 243	13	52.0	649	13	US-10-027-632-102716	Sequence 102716, App	C 316	13	52.0	826	14	US-10-198-846-5664	Sequence 5664, App
C 244	13	52.0	649	13	US-10-027-632-102717	Sequence 102717, App	C 317	13	52.0	829	9	US-09-765-27-133	Sequence 133, App
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C 246	13	52.0	651	14	US-10-106-698-22329	Sequence 22329, App	C 319	13	52.0	833	14	US-10-198-846-5689	Sequence 5689, App
C 247	13	52.0	654	13	US-10-027-632-98307	Sequence 98307, App	C 320	13	52.0	834	14	US-10-198-846-5637	Sequence 5637, App
C 248	13	52.0	656	13	US-10-027-632-212022	Sequence 212022, App	C 321	13	52.0	835	14	US-10-027-632-8059	Sequence 8059, App
C 249	13	52.0	656	13	US-10-027-632-212023	Sequence 212023, App	C 322	13	52.0	835	14	US-10-198-846-5661	Sequence 5661, App
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C 251	13	52.0	660	13	US-10-027-632-131009	Sequence 131009, App	C 324	13	52.0	845	14	US-10-198-846-5667	Sequence 5667, App
C 252	13	52.0	665	13	US-10-027-632-134571	Sequence 134571, A	C 325	13	52.0	847	14	US-10-198-846-5690	Sequence 5690, App
C 253	13	52.0	668	13	US-10-027-632-213564	Sequence 213564, App	C 326	13	52.0	851	13	US-10-027-632-157479	Sequence 157479, App
C 254	13	52.0	668	13	US-10-027-632-213565	Sequence 213565, App	C 327	13	52.0	852	13	US-10-027-632-169864	Sequence 169864, App
C 255	13	52.0	668	13	US-10-027-632-213566	Sequence 213566, App	C 328	13	52.0	853	13	US-10-027-632-8079	Sequence 8079, App
C 256	13	52.0	668	13	US-10-027-632-213567	Sequence 213567, App	C 329	13	52.0	857	14	US-10-198-846-5728	Sequence 5728, App
C 257	13	52.0	671	13	US-10-027-632-262204	Sequence 262204, App	C 330	13	52.0	860	12	US-10-161-051-191	Sequence 191, App
C 258	13	52.0	671	13	US-10-027-632-262205	Sequence 262205, App	C 331	13	52.0	861	13	US-10-027-632-163414	Sequence 163414, App
C 259	13	52.0	671	13	US-10-027-632-262206	Sequence 262206, App	C 332	13	52.0	861	13	US-10-027-632-163415	Sequence 163415, App
C 260	13	52.0	671	13	US-10-027-632-262207	Sequence 262207, App	C 333	13	52.0	862	14	US-10-198-846-5678	Sequence 5678, App
C 261	13	52.0	673	13	US-10-027-632-241700	Sequence 241700, App	C 334	13	52.0	863	14	US-10-198-846-5663	Sequence 5663, App
C 262	13	52.0	673	13	US-10-027-632-241701	Sequence 241701, App	C 335	13	52.0	868	14	US-10-198-846-5648	Sequence 5648, App
C 263	13	52.0	674	13	US-10-027-632-139641	Sequence 139641, App	C 336	13	52.0	869	14	US-10-198-846-5656	Sequence 5656, App
C 264	13	52.0	676	13	US-10-027-632-211769	Sequence 211769, App	C 337	13	52.0	873	14	US-10-198-846-5721	Sequence 5721, App
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C 266	13	52.0	679	13	US-10-027-632-100126	Sequence 100126, App	C 339	13	52.0	881	11	US-09-984-271-40	Sequence 271-40, App
C 267	13	52.0	679	13	US-10-027-632-135064	Sequence 135064, App	C 340	13	52.0	891	13	US-10-027-632-4563	Sequence 4563, App
C 268	13	52.0	679	13	US-10-027-632-163964	Sequence 163964, App	C 341	13	52.0	891	13	US-10-027-632-4564	Sequence 4564, App
C 269	13	52.0	679	13	US-10-027-632-163965	Sequence 163965, App	C 342	13	52.0	893	14	US-10-198-846-5548	Sequence 5548, App
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C 274	13	52.0	694	13	US-10-027-632-17152	Sequence 17152, App	C 347	13	52.0	1011	14	US-10-198-846-5673	Sequence 5673, App
C 275	13	52.0	695	14	US-10-106-698-2525	Sequence 2525, App	C 348	13	52.0	1013	10	US-09-822-89304-350	Sequence 350, App
C 276	13	52.0	700	9	US-09-810-936-174	Sequence 174, App	C 349	13	52.0	1018	14	US-10-198-846-5713	Sequence 5713, App
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C 278	13	52.0	700	10	US-09-924-400-174	Sequence 174, App	C 351	13	52.0	1041	9	US-09-604-287A-423	Sequence 423, App
C 279	13	52.0	700	14	US-10-212-679-174	Sequence 174, App	C 352	13	52.0	1041	11	US-09-551-621-423	Sequence 423, App
C 280	13	52.0	704	13	US-10-027-632-137840	Sequence 137840, App	C 353	13	52.0	1041	12	US-10-124-805-423	Sequence 423, App
C 281	13	52.0	706	13	US-10-027-632-105350	Sequence 105350, App	C 354	13	52.0	1041	13	US-10-007-805-423	Sequence 423, App
C 282	13	52.0	706	13	US-10-027-632-134743	Sequence 134743, App	C 355	13	52.0	1041	14	US-10-076-822-423	Sequence 422, App
C 283	13	52.0	717	13	US-10-027-632-146346	Sequence 146346, App	C 356	13	52.0	1062	10	US-09-962-739-3	Sequence 739-3, App
C 284	13	52.0	717	13	US-10-027-632-146346	Sequence 146346, App	C 357	13	52.0	1074	9	US-09-861-451A-49	Sequence 49, App
C 285	13	52.0	717	13	US-10-027-632-146347	Sequence 146347, App	C 358	13	52.0	1080	9	US-09-815-243-4061	Sequence 4061, App
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C 288	13	52.0	723	13	US-10-027-632-16643	Sequence 16643, A	C 361	13	52.0	1138	14	US-10-198-846-5621	Sequence 5621, App
C 289	13	52.0	723	13	US-10-027-632-16644	Sequence 16644, A	C 362	13	52.0	1141	13	US-10-027-632-255238	Sequence 255238, App
C 290	13	52.0	727	13	US-10-027-632-110711	Sequence 110711, App	C 363	13	52.0	1158	14	US-10-198-846-5632	Sequence 5632, App
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C 292	13	52.0	731	13	US-10-027-632-181111	Sequence 18111, A	C 365	13	52.0	1181	13	US-10-027-632-211183	Sequence 211183, App
C 293	13	52.0	731	13	US-10-027-632-151734	Sequence 151734, App	C 366	13	52.0	1231	13	US-10-027-632-214018	Sequence 214018, App
C 294	13	52.0	737	13	US-10-027-632-3651	Sequence 3651, App	C 367	13	52.0	1239	9	US-09-796-885-31	Sequence 31, App
C 295	13	52.0	737	13	US-10-027-632-3652	Sequence 3652, App	C 368	13	52.0	1282	14	US-10-198-846-5655	Sequence 5655, App
C 296	13	52.0	742	13	US-10-027-632-166017	Sequence 166017, App	C 369	13	52.0	1318	10	US-09-778-844-1	Sequence 1, App
C 297	13	52.0	758	13	US-10-027-632-134744	Sequence 134744, App	C 370	13	52.0	1318	13	US-10-027-632-177480	Sequence 177480, App
C 298	13	52.0	762	13	US-10-027-632-23417	Sequence 23417, A	C 371	13	52.0	1318	13	US-10-027-632-177481	Sequence 177481, App
C 299	13	52.0	762	13	US-10-027-632-23418	Sequence 23418, A	C 372	13	52.0	1318	13	US-10-027-632-177482	Sequence 177482, App
C 300	13	52.0	762	13	US-10-027-632-23419	Sequence 23419, A	C 373	13	52.0	1318	13	US-10-027-632-177483	Sequence 177483, App
C 301	13	52.0	762	13	US-10-027-632-98308	Sequence 98308, A	C 374	13	52.0	1318	13	US-10-027-632-177484	Sequence 177484, App
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C 303	13	52.0	773	14	US-10-198-846-5618	Sequence 5618, App	C 376	13	52.0	1379	10	US-09-764-868-87	Sequence 868-87, App
C 304	13	52.0	780	13	US-10-198-846-5669	Sequence 5669, App	C 377	13	52.0	1455	9	US-09-738-626-2886	Sequence 2886, App
C 305	13	52.0	788	14	US-10-027-632-145869	Sequence 145869, App	C 378	13	52.0	1464	10	US-09-823-901-6	Sequence 6, App
C 306	13	52.0	789	14	US-10-198-846-5670	Sequence 5670, App	C 379	13	52.0	1464	14	US-10-175-666-18	Sequence 18, App
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C 308	13	52.0	791	13	US-10-027-632-33387	Sequence 33387, A	C 381	13	52.0	1521	11	US-09-769-787-292	Sequence 292, App

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C 384	13	52.0	1624	11	US-09-764-891-7397	Sequence 7397, Ap	457	13	52.0	1819	12	US-10-179-515-39	Sequence 39, Appl
C 385	13	52.0	1625	11	US-09-764-891-7398	Sequence 7398, Ap	458	13	52.0	1819	12	US-10-017-19A-35	Sequence 35, Appl
386	13	52.0	1652	12	US-10-032-585-6912	Sequence 6912, Ap	459	13	52.0	1819	12	US-10-173-702-39	Sequence 39, Appl
387	13	52.0	1698	12	US-10-349-836-19	Sequence 19, Appl	460	13	52.0	1819	12	US-10-173-703-39	Sequence 39, Appl
C 388	13	52.0	1710	12	US-09-814-353-20784	Sequence 20784, A	461	13	52.0	1819	12	US-10-173-704-39	Sequence 39, Appl
C 389	13	52.0	1733	12	US-10-349-836-9	Sequence 9, Appl	462	13	52.0	1819	12	US-10-173-704-39	Sequence 39, Appl
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391	13	52.0	1782	12	US-09-882-171-120	Sequence 120, App	464	13	52.0	1819	12	US-10-176-486-39	Sequence 39, Appl
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409	13	52.0	1819	11	US-09-999-830A-35	Sequence 35, Appl	482	13	52.0	1819	12	US-10-175-737-39	Sequence 39, Appl
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412	13	52.0	1819	11	US-09-978-643A-35	Sequence 35, Appl	485	13	52.0	1819	12	US-10-175-738-39	Sequence 39, Appl
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419	13	52.0	1819	12	US-10-143-030A-35	Sequence 35, Appl	492	13	52.0	1819	12	US-10-174-572-39	Sequence 39, Appl
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529	1.3	52.0	1819	14	US-10-180-547-39	Sequence 39, Appl	602	1.3	52.0	1819	14	US-10-176-479-39	Sequence 39, Appl
530	1.3	52.0	1819	14	US-10-180-549-39	Sequence 39, Appl	603	1.3	52.0	1819	14	US-10-176-748-39	Sequence 39, Appl
531	1.3	52.0	1819	14	US-10-180-555-39	Sequence 39, Appl	604	1.3	52.0	1819	14	US-10-176-916-39	Sequence 39, Appl
532	1.3	52.0	1819	14	US-10-180-559-39	Sequence 39, Appl	605	1.3	52.0	1819	14	US-10-179-507-39	Sequence 39, Appl
533	1.3	52.0	1819	14	US-10-181-000-39	Sequence 39, Appl	606	1.3	52.0	1819	14	US-10-179-516-39	Sequence 39, Appl
534	1.3	52.0	1819	14	US-10-183-010-39	Sequence 39, Appl	607	1.3	52.0	1819	14	US-10-179-519-39	Sequence 39, Appl
535	1.3	52.0	1819	14	US-10-183-012-39	Sequence 39, Appl	608	1.3	52.0	1819	14	US-10-179-525-39	Sequence 39, Appl
536	1.3	52.0	1819	14	US-10-184-614-39	Sequence 39, Appl	609	1.3	52.0	1819	14	US-10-180-540-39	Sequence 39, Appl
537	1.3	52.0	1819	14	US-10-184-623-39	Sequence 39, Appl	610	1.3	52.0	1819	14	US-10-180-545-39	Sequence 39, Appl
538	1.3	52.0	1819	14	US-10-184-635-39	Sequence 39, Appl	611	1.3	52.0	1819	14	US-10-183-006-39	Sequence 39, Appl
539	1.3	52.0	1819	14	US-10-184-637-39	Sequence 39, Appl	612	1.3	52.0	1819	14	US-10-183-008-39	Sequence 39, Appl
540	1.3	52.0	1819	14	US-10-184-646-39	Sequence 39, Appl	613	1.3	52.0	1819	14	US-10-183-017-39	Sequence 39, Appl
541	1.3	52.0	1819	14	US-10-184-647-39	Sequence 39, Appl	614	1.3	52.0	1819	14	US-10-183-019-39	Sequence 39, Appl
542	1.3	52.0	1819	14	US-10-184-652-39	Sequence 39, Appl	615	1.3	52.0	1819	14	US-10-184-618-39	Sequence 39, Appl
543	1.3	52.0	1819	14	US-10-187-594-39	Sequence 39, Appl	616	1.3	52.0	1819	14	US-10-184-625-39	Sequence 39, Appl
544	1.3	52.0	1819	14	US-10-187-596-39	Sequence 39, Appl	617	1.3	52.0	1819	14	US-10-184-628-39	Sequence 39, Appl
545	1.3	52.0	1819	14	US-10-187-745-39	Sequence 39, Appl	618	1.3	52.0	1819	14	US-10-184-627-39	Sequence 39, Appl
546	1.3	52.0	1819	14	US-10-187-885-39	Sequence 39, Appl	619	1.3	52.0	1819	14	US-10-184-654-39	Sequence 39, Appl
547	1.3	52.0	1819	14	US-10-187-886-39	Sequence 39, Appl	620	1.3	52.0	1819	14	US-10-184-653-39	Sequence 39, Appl
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549	1.3	52.0	1819	14	US-10-196-756-39	Sequence 39, Appl	622	1.3	52.0	1819	14	US-10-184-674-39	Sequence 39, Appl
550	1.3	52.0	1819	14	US-10-176-751-39	Sequence 39, Appl	623	1.3	52.0	1819	14	US-10-188-775-39	Sequence 39, Appl
551	1.3	52.0	1819	14	US-10-176-760-39	Sequence 39, Appl	624	1.3	52.0	1819	14	US-10-194-462-39	Sequence 39, Appl
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553	1.3	52.0	1819	14	US-10-180-541-39	Sequence 39, Appl	626	1.3	52.0	1819	14	US-10-196-762-39	Sequence 39, Appl
554	1.3	52.0	1819	14	US-10-180-542-39	Sequence 39, Appl	627	1.3	52.0	1819	14	US-10-197-695-39	Sequence 39, Appl
555	1.3	52.0	1819	14	US-10-180-548-39	Sequence 39, Appl	628	1.3	52.0	1819	14	US-10-198-878-39	Sequence 39, Appl
556	1.3	52.0	1819	14	US-10-180-551-39	Sequence 39, Appl	629	1.3	52.0	1819	14	US-10-195-884-39	Sequence 39, Appl
557	1.3	52.0	1819	14	US-10-180-998-39	Sequence 39, Appl	630	1.3	52.0	1819	14	US-10-176-488-39	Sequence 39, Appl
558	1.3	52.0	1819	14	US-10-180-999-39	Sequence 39, Appl	631	1.3	52.0	1819	14	US-10-176-753-39	Sequence 39, Appl
559	1.3	52.0	1819	14	US-10-183-013-39	Sequence 39, Appl	632	1.3	52.0	1819	14	US-10-176-917-39	Sequence 39, Appl
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562	1.3	52.0	1819	14	US-10-184-617-39	Sequence 39, Appl	635	1.3	52.0	1819	14	US-10-179-514-39	Sequence 39, Appl
563	1.3	52.0	1819	14	US-10-184-622-39	Sequence 39, Appl	636	1.3	52.0	1819	14	US-10-179-522-39	Sequence 39, Appl
564	1.3	52.0	1819	14	US-10-184-628-39	Sequence 39, Appl	637	1.3	52.0	1819	14	US-10-180-552-39	Sequence 39, Appl
565	1.3	52.0	1819	14	US-10-184-629-39	Sequence 39, Appl	638	1.3	52.0	1819	14	US-10-180-556-39	Sequence 39, Appl
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567	1.3	52.0	1819	14	US-10-184-631-39	Sequence 39, Appl	640	1.3	52.0	1819	14	US-10-183-015-39	Sequence 39, Appl
568	1.3	52.0	1819	14	US-10-184-633-39	Sequence 39, Appl	641	1.3	52.0	1819	14	US-10-184-615-39	Sequence 39, Appl
569	1.3	52.0	1819	14	US-10-184-636-39	Sequence 39, Appl	642	1.3	52.0	1819	14	US-10-184-620-39	Sequence 39, Appl
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572	1.3	52.0	1819	14	US-10-184-651-39	Sequence 39, Appl	645	1.3	52.0	1819	14	US-10-192-010-39	Sequence 39, Appl
573	1.3	52.0	1819	14	US-10-187-588-39	Sequence 39, Appl	646	1.3	52.0	1819	14	US-10-205-808-39	Sequence 39, Appl
574	1.3	52.0	1819	14	US-10-187-597-39	Sequence 39, Appl	647	1.3	52.0	1819	14	US-10-185-985-39	Sequence 39, Appl
575	1.3	52.0	1819	14	US-10-187-598-39	Sequence 39, Appl	648	1.3	52.0	1819	14	US-10-187-599-39	Sequence 39, Appl
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577	1.3	52.0	1819	14	US-10-187-601-39	Sequence 39, Appl	650	1.3	52.0	1819	14	US-10-188-780-39	Sequence 39, Appl
578	1.3	52.0	1819	14	US-10-187-602-39	Sequence 39, Appl	651	1.3	52.0	1819	14	US-10-192-015-39	Sequence 39, Appl
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580	1.3	52.0	1819	14	US-10-187-741-39	Sequence 39, Appl	653	1.3	52.0	1819	14	US-10-194-425-39	Sequence 39, Appl
581	1.3	52.0	1819	14	US-10-187-743-39	Sequence 39, Appl	654	1.3	52.0	1819	14	US-10-194-485-39	Sequence 39, Appl
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587	1.3	52.0	1819	14	US-10-187-757-39	Sequence 39, Appl	660	1.3	52.0	1819	14	US-10-197-700-39	Sequence 39, Appl
588	1.3	52.0	1819	14	US-10-187-884-39	Sequence 39, Appl	661	1.3	52.0	1819	14	US-10-197-705-39	Sequence 39, Appl
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591	1.3	52.0	1819	14	US-10-188-770-39	Sequence 39, Appl	664	1.3	52.0	1819	14	US-10-198-768-39	Sequence 39, Appl
592	1.3	52.0	1819	14	US-10-188-773-39	Sequence 39, Appl	665	1.3	52.0	1819	14	US-10-198-765-39	Sequence 39, Appl
593	1.3	52.0	1819	14	US-10-188-781-39	Sequence 39, Appl	666	1.3	52.0	1819	14	US-10-198-768-39	Sequence 39, Appl
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596	1.3	52.0	1819	14	US-10-195-897-39	Sequence 39, Appl	669	1.3	52.0	1819	14	US-10-199-310-39	Sequence 39, Appl
597	1.3	52.0	1819	14	US-10-195-897-39	Sequence 39, Appl	670	1.3	52.0	1819	14	US-10-199-311-39	Sequence 39, Appl
598	1.3	52.0	1819	14	US-10-195-901-39	Sequence 39, Appl	671	1.3	52.0	1819	14	US-10-199-314-39	Sequence 39, Appl
599	1.3	52.0	1819	14	US-10-196-743-39	Sequence 39, Appl	672	1.3	52.0	1819	14	US-10-199-317-39	Sequence 39, Appl
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675	13	52.0	1819	14	US-10-199-669-39	Sequence 39, Appl	748	13	52.0	1819	14	US-10-192-014-39	Sequence 39, Appl
676	13	52.0	1819	14	US-10-201-534-39	Sequence 39, Appl	749	13	52.0	1819	14	US-10-192-016-39	Sequence 39, Appl
677	13	52.0	1819	14	US-10-201-770-39	Sequence 39, Appl	750	13	52.0	1819	14	US-10-194-362-39	Sequence 39, Appl
678	13	52.0	1819	14	US-10-201-855-39	Sequence 39, Appl	751	13	52.0	1819	14	US-10-194-364-39	Sequence 39, Appl
679	13	52.0	1819	14	US-10-201-856-39	Sequence 39, Appl	752	13	52.0	1819	14	US-10-194-395-39	Sequence 39, Appl
680	13	52.0	1819	14	US-10-202-459-39	Sequence 39, Appl	753	13	52.0	1819	14	US-10-194-424-39	Sequence 39, Appl
681	13	52.0	1819	14	US-10-202-476-39	Sequence 39, Appl	754	13	52.0	1819	14	US-10-194-458-39	Sequence 39, Appl
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683	13	52.0	1819	14	US-10-202-934-39	Sequence 39, Appl	756	13	52.0	1819	14	US-10-194-468-39	Sequence 39, Appl
684	13	52.0	1819	14	US-10-202-935-39	Sequence 39, Appl	757	13	52.0	1819	14	US-10-195-886-39	Sequence 39, Appl
685	13	52.0	1819	14	US-10-202-936-39	Sequence 39, Appl	758	13	52.0	1819	14	US-10-195-891-39	Sequence 39, Appl
686	13	52.0	1819	14	US-10-202-939-39	Sequence 39, Appl	759	13	52.0	1819	14	US-10-196-746-39	Sequence 39, Appl
687	13	52.0	1819	14	US-10-205-504-39	Sequence 39, Appl	760	13	52.0	1819	14	US-10-196-752-39	Sequence 39, Appl
688	13	52.0	1819	14	US-10-205-509-39	Sequence 39, Appl	761	13	52.0	1819	14	US-10-196-753-39	Sequence 39, Appl
689	13	52.0	1819	14	US-10-205-895-39	Sequence 39, Appl	762	13	52.0	1819	14	US-10-196-761-39	Sequence 39, Appl
690	13	52.0	1819	14	US-10-205-899-39	Sequence 39, Appl	763	13	52.0	1819	14	US-10-197-662-39	Sequence 39, Appl
691	13	52.0	1819	14	US-10-205-900-39	Sequence 39, Appl	764	13	52.0	1819	14	US-10-197-663-39	Sequence 39, Appl
692	13	52.0	1819	14	US-10-205-909-39	Sequence 39, Appl	765	13	52.0	1819	14	US-10-197-666-39	Sequence 39, Appl
693	13	52.0	1819	14	US-10-195-890-39	Sequence 39, Appl	766	13	52.0	1819	14	US-10-197-668-39	Sequence 39, Appl
694	13	52.0	1819	14	US-10-183-002-39	Sequence 39, Appl	767	13	52.0	1819	14	US-10-197-703-39	Sequence 39, Appl
695	13	52.0	1819	14	US-10-184-621-39	Sequence 39, Appl	768	13	52.0	1819	14	US-10-197-711-39	Sequence 39, Appl
696	13	52.0	1819	14	US-10-184-638-39	Sequence 39, Appl	769	13	52.0	1819	14	US-10-198-757-39	Sequence 39, Appl
697	13	52.0	1819	14	US-10-187-752-39	Sequence 39, Appl	770	13	52.0	1819	14	US-10-198-761-39	Sequence 39, Appl
698	13	52.0	1819	14	US-10-187-887-39	Sequence 39, Appl	771	13	52.0	1819	14	US-10-198-762-39	Sequence 39, Appl
699	13	52.0	1819	14	US-10-194-461-39	Sequence 39, Appl	772	13	52.0	1819	14	US-10-198-763-39	Sequence 39, Appl
700	13	52.0	1819	14	US-10-195-892-39	Sequence 39, Appl	773	13	52.0	1819	14	US-10-198-767-39	Sequence 39, Appl
701	13	52.0	1819	14	US-10-196-751-39	Sequence 39, Appl	774	13	52.0	1819	14	US-10-199-301-39	Sequence 39, Appl
702	13	52.0	1819	14	US-10-197-694-39	Sequence 39, Appl	775	13	52.0	1819	14	US-10-199-307-39	Sequence 39, Appl
703	13	52.0	1819	14	US-10-197-697-39	Sequence 39, Appl	776	13	52.0	1819	14	US-10-199-312-39	Sequence 39, Appl
704	13	52.0	1819	14	US-10-197-707-39	Sequence 39, Appl	777	13	52.0	1819	14	US-10-199-315-39	Sequence 39, Appl
705	13	52.0	1819	14	US-10-199-303-39	Sequence 39, Appl	778	13	52.0	1819	14	US-10-199-316-39	Sequence 39, Appl
706	13	52.0	1819	14	US-10-199-318-39	Sequence 39, Appl	779	13	52.0	1819	14	US-10-199-457-39	Sequence 39, Appl
707	13	52.0	1819	14	US-10-199-458-39	Sequence 39, Appl	780	13	52.0	1819	14	US-10-199-459-39	Sequence 39, Appl
708	13	52.0	1819	14	US-10-199-462-39	Sequence 39, Appl	781	13	52.0	1819	14	US-10-199-460-39	Sequence 39, Appl
709	13	52.0	1819	14	US-10-201-324-39	Sequence 39, Appl	782	13	52.0	1819	14	US-10-199-461-39	Sequence 39, Appl
710	13	52.0	1819	14	US-10-201-328-39	Sequence 39, Appl	783	13	52.0	1819	14	US-10-199-667-39	Sequence 39, Appl
711	13	52.0	1819	14	US-10-201-527-39	Sequence 39, Appl	784	13	52.0	1819	14	US-10-199-673-39	Sequence 39, Appl
712	13	52.0	1819	14	US-10-201-528-39	Sequence 39, Appl	785	13	52.0	1819	14	US-10-201-321-39	Sequence 39, Appl
713	13	52.0	1819	14	US-10-201-529-39	Sequence 39, Appl	786	13	52.0	1819	14	US-10-201-322-39	Sequence 39, Appl
714	13	52.0	1819	14	US-10-201-530-39	Sequence 39, Appl	787	13	52.0	1819	14	US-10-201-326-39	Sequence 39, Appl
715	13	52.0	1819	14	US-10-202-408-39	Sequence 39, Appl	788	13	52.0	1819	14	US-10-201-532-39	Sequence 39, Appl
716	13	52.0	1819	14	US-10-202-409-39	Sequence 39, Appl	789	13	52.0	1819	14	US-10-201-533-39	Sequence 39, Appl
717	13	52.0	1819	14	US-10-202-411-39	Sequence 39, Appl	790	13	52.0	1819	14	US-10-201-535-39	Sequence 39, Appl
718	13	52.0	1819	14	US-10-202-472-39	Sequence 39, Appl	791	13	52.0	1819	14	US-10-201-769-39	Sequence 39, Appl
719	13	52.0	1819	14	US-10-205-502-39	Sequence 39, Appl	792	13	52.0	1819	14	US-10-201-771-39	Sequence 39, Appl
720	13	52.0	1819	14	US-10-205-507-39	Sequence 39, Appl	793	13	52.0	1819	14	US-10-201-854-39	Sequence 39, Appl
721	13	52.0	1819	14	US-10-205-511-39	Sequence 39, Appl	794	13	52.0	1819	14	US-10-202-410-39	Sequence 39, Appl
722	13	52.0	1819	14	US-10-205-902-39	Sequence 39, Appl	795	13	52.0	1819	14	US-10-202-473-39	Sequence 39, Appl
723	13	52.0	1819	14	US-10-205-907-39	Sequence 39, Appl	796	13	52.0	1819	14	US-10-202-474-39	Sequence 39, Appl
724	13	52.0	1819	14	US-10-167-749-35	Sequence 39, Appl	797	13	52.0	1819	14	US-10-205-503-39	Sequence 39, Appl
725	13	52.0	1819	14	US-10-194-456-39	Sequence 39, Appl	798	13	52.0	1819	14	US-10-205-512-39	Sequence 39, Appl
726	13	52.0	1819	14	US-10-196-758-39	Sequence 39, Appl	799	13	52.0	1819	14	US-10-205-892-39	Sequence 39, Appl
727	13	52.0	1819	14	US-10-196-770-39	Sequence 39, Appl	800	13	52.0	1819	14	US-10-205-894-39	Sequence 39, Appl
728	13	52.0	1819	14	US-10-199-618-39	Sequence 39, Appl	801	13	52.0	1819	14	US-10-205-896-39	Sequence 39, Appl
729	13	52.0	1819	14	US-10-200-617-39	Sequence 39, Appl	802	13	52.0	1819	14	US-10-205-898-39	Sequence 39, Appl
730	13	52.0	1819	14	US-10-205-893-39	Sequence 39, Appl	803	13	52.0	1819	14	US-10-205-901-39	Sequence 39, Appl
731	13	52.0	1819	14	US-10-205-897-39	Sequence 39, Appl	804	13	52.0	1819	14	US-10-205-903-39	Sequence 39, Appl
732	13	52.0	1819	14	US-10-196-754-39	Sequence 39, Appl	805	13	52.0	1819	14	US-10-206-909-39	Sequence 39, Appl
733	13	52.0	1819	14	US-10-013-921A-35	Sequence 39, Appl	806	13	52.0	1819	14	US-10-206-910-39	Sequence 39, Appl
734	13	52.0	1819	14	US-10-174-571-39	Sequence 39, Appl	807	13	52.0	1819	14	US-10-206-911-39	Sequence 39, Appl
735	13	52.0	1819	14	US-10-176-746-39	Sequence 39, Appl	808	13	52.0	1819	14	US-10-206-912-39	Sequence 39, Appl
736	13	52.0	1819	14	US-10-176-923-39	Sequence 39, Appl	809	13	52.0	1819	14	US-10-206-913-39	Sequence 39, Appl
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738	13	52.0	1819	14	US-10-184-633-39	Sequence 39, Appl	811	13	52.0	1819	14	US-10-206-920-39	Sequence 39, Appl
739	13	52.0	1819	14	US-10-184-639-39	Sequence 39, Appl	812	13	52.0	1819	14	US-10-206-921-39	Sequence 39, Appl
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743	13	52.0	1819	14	US-10-188-771-39	Sequence 39, Appl	816	13	52.0	1819	14	US-10-206-927-39	Sequence 39, Appl
744	13	52.0	1819	14	US-10-192-006-39	Sequence 39, Appl	817	13	52.0	1819	14	US-10-207-916-39	Sequence 39, Appl
745	13	52.0	1819	14	US-10-192-008-39	Sequence 39, Appl	818	13	52.0	1819	14	US-10-207-917-39	Sequence 39, Appl
746	13	52.0	1819	14	US-10-192-009-39	Sequence 39, Appl	819	13	52.0	1819	14	US-10-207-918-39	Sequence 39, Appl

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825	13	52.0	1819	14	US-10-208-023-39	Sequence 39, Appl	898	13	52.0	1831	13	US-10-010-742-297	Sequence 297, App
826	13	52.0	1819	14	US-10-208-026-39	Sequence 39, Appl	899	13	52.0	1831	13	US-10-205-823-280	Sequence 280, App
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828	13	52.0	1819	14	US-10-208-030-39	Sequence 39, Appl	901	13	52.0	1861	14	US-10-176-847-7	Sequence 7, Appl
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830	13	52.0	1819	14	US-10-195-868-39	Sequence 39, Appl	903	13	52.0	1868	10	US-09-764-877-2821	Sequence 2821, Ap
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835	13	52.0	1819	14	US-10-174-578-39	Sequence 39, Appl	908	13	52.0	1962	13	US-10-027-632-97169	Sequence 97169, A
836	13	52.0	1819	14	US-10-175-741-39	Sequence 39, Appl	909	13	52.0	1962	13	US-10-027-632-98309	Sequence 98309, A
837	13	52.0	1819	14	US-10-175-750-39	Sequence 39, Appl	910	13	52.0	1962	13	US-10-027-632-98310	Sequence 98310, A
838	13	52.0	1819	14	US-10-176-986-39	Sequence 39, Appl	911	13	52.0	1974	12	US-10-084-817-299	Sequence 299, App
839	13	52.0	1819	14	US-10-184-641-39	Sequence 39, Appl	912	13	52.0	1976	12	US-10-237-446-71	Sequence 71, Appl
840	13	52.0	1819	14	US-10-187-888-39	Sequence 39, Appl	913	13	52.0	1976	12	US-10-242-074-71	Sequence 71, Appl
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843	13	52.0	1819	14	US-10-195-895-39	Sequence 39, Appl	916	13	52.0	1976	12	US-10-243-261-71	Sequence 71, Appl
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850	13	52.0	1819	14	US-10-207-924-39	Sequence 39, Appl	923	13	52.0	1976	12	US-10-238-136-71	Sequence 71, Appl
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853	13	52.0	1819	14	US-10-175-753-39	Sequence 39, Appl	926	13	52.0	1976	14	US-10-245-107-71	Sequence 71, Appl
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855	13	52.0	1819	14	US-10-201-327-39	Sequence 39, Appl	928	13	52.0	1976	14	US-10-245-771-71	Sequence 71, Appl
856	13	52.0	1819	14	US-10-121-062-39	Sequence 39, Appl	929	13	52.0	1976	14	US-10-245-851-71	Sequence 71, Appl
857	13	52.0	1819	14	US-10-183-003-39	Sequence 39, Appl	930	13	52.0	1976	14	US-10-245-883-71	Sequence 71, Appl
858	13	52.0	1819	14	US-10-183-016-39	Sequence 39, Appl	931	13	52.0	1976	14	US-10-237-535-71	Sequence 71, Appl
859	13	52.0	1819	14	US-10-173-696-39	Sequence 39, Appl	932	13	52.0	1976	14	US-10-238-183-71	Sequence 71, Appl
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861	13	52.0	1819	14	US-10-176-491-39	Sequence 39, Appl	934	13	52.0	1976	14	US-10-238-370-71	Sequence 71, Appl
862	13	52.0	1819	14	US-10-176-979-39	Sequence 39, Appl	935	13	52.0	1976	14	US-10-245-055-71	Sequence 71, Appl
863	13	52.0	1819	14	US-10-187-592-39	Sequence 39, Appl	936	13	52.0	1976	14	US-10-245-147-71	Sequence 71, Appl
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866	13	52.0	1819	14	US-10-174-575A-39	Sequence 39, Appl	939	13	52.0	1976	14	US-10-245-880-71	Sequence 71, Appl
867	13	52.0	1819	14	US-10-179-520-39	Sequence 39, Appl	940	13	52.0	1976	14	US-10-239-126-71	Sequence 71, Appl
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870	13	52.0	1819	14	US-10-205-910-39	Sequence 39, Appl	943	13	52.0	1976	14	US-10-245-621-71	Sequence 71, Appl
871	13	52.0	1819	14	US-10-179-525-39	Sequence 39, Appl	944	13	52.0	1976	14	US-10-245-880-71	Sequence 71, Appl
872	13	52.0	1819	14	US-10-166-709A-35	Sequence 35, Appl	945	13	52.0	1976	14	US-10-245-033-71	Sequence 71, Appl
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877	13	52.0	1819	14	US-10-184-624-39	Sequence 39, Appl	950	13	52.0	1976	14	US-10-245-770-71	Sequence 71, Appl
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885	13	52.0	1819	14	US-10-205-508-39	Sequence 39, Appl	958	13	52.0	1976	14	US-10-238-346-71	Sequence 71, Appl
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C 999 13 52.0 1976 14 US-10-245-479-71 Sequence 71, Appl
C1000 13 52.0 1976 14 US-10-245-852-71 Sequence 71, Appl

ALIGNMENTS

RESULT 1
US-09-784-423-125
Sequence 125, Application US/09784423
Patent No. US20020012924A1
GENERAL INFORMATION:
APPLICANT: Schumm, James W.
TITLE OF INVENTION: MATERIALS AND METHODS FOR IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM REPEAT DNA MARKERS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESS: Promega Corporation
STREET: 2800 Woods Hollow Road
CITY: Madison
STATE: Wisconsin
COUNTRY: U.S.A.
ZIP: 53711-5399
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb
COMPUTER: IBM compatible PC
OPERATING SYSTEM: Windows 95
SOFTWARE: Word 97 (DOS text format)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/784,423
FILING DATE: 15-Feb-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/018,584
FILING DATE: 04-Feb-1998
ATTORNEY/AGENT INFORMATION:
NAME: Grady J. Frenchick
REGISTRATION NUMBER: 29,018

REFERENCE/DOCKET NUMBER: 16026.9180
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 257-3501
TELEFAX: (608) 257-2275
INFORMATION FOR SEQ ID NO: 125
SEQUENCE CHARACTERISTICS:
LENGTH: 25
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 125
US-09-784-423-125
Query Match 100.0%; Score 25; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 5.6e-05;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TGTGCGAGAACCGAATTACAG 25
Db 1 TGTGCGAGAACCGAATTACAG 25
RESULT 2
US-09-784-423-32/c
Sequence 32, Application US/09784423
Patent No. US20020012924A1
GENERAL INFORMATION:
APPLICANT: Schumm, James W.
TITLE OF INVENTION: MATERIALS AND METHODS FOR IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM REPEAT DNA MARKERS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESS: Promega Corporation
STREET: 2800 Woods Hollow Road
CITY: Madison
STATE: Wisconsin
COUNTRY: U.S.A.
ZIP: 53711-5399
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb
COMPUTER: IBM compatible PC
OPERATING SYSTEM: Windows 95
SOFTWARE: Word 97 (DOS text format)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/784,423
FILING DATE: 15-Feb-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/018,584
FILING DATE: 04-Feb-1998
ATTORNEY/AGENT INFORMATION:
NAME: Grady J. Frenchick
REGISTRATION NUMBER: 29,018
REFERENCE/DOCKET NUMBER: 16026.9180
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 257-3501
TELEFAX: (608) 257-2275
INFORMATION FOR SEQ ID NO: 32
SEQUENCE CHARACTERISTICS:
LENGTH: 1000 bp
TYPE: Nucleic Acid
STRANDEDNESS: Double
TOPOLOGY: Circular
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: no
IMMEDIATE SOURCE:
CLONE: S132
POSITION IN GENOME:
CHROMOSOME/SEGMENT: 22
SEQUENCE DESCRIPTION: SEQ ID NO: 32
US-09-784-423-32

Query Match 100.0%; Score 25; DB 9; Length 1000;
 Best Local Similarity 100.0%; Pred. No. 6.8e-05;
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTGCCGAGAACCGAATTTACG 25
 DB 726 TGTGCCGAGAACCGAATTTACG 702

RESULT 3

US-10-027-632-311837/c
 Sequence 311837, Application US/10027632
 GENERAL INFORMATION:
 APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 TITLE OF INVENTION: Polymorphisms in the Human Genome
 FILE REFERENCE: 108827.129

CURRENT APPLICATION NUMBER: US/10/027,632
 CURRENT FILING DATE: 2002-04-30
 PRIOR APPLICATION NUMBER: US 60/218,006
 PRIOR FILING DATE: 2000-07-12
 PRIOR APPLICATION NUMBER: US 60/198,676
 PRIOR FILING DATE: 2000-04-20
 PRIOR APPLICATION NUMBER: US 60/193,483
 PRIOR FILING DATE: 2000-03-29
 PRIOR APPLICATION NUMBER: US 60/185,218
 PRIOR FILING DATE: 2000-02-24
 PRIOR APPLICATION NUMBER: US 60/167,363
 PRIOR FILING DATE: 1999-11-23
 PRIOR APPLICATION NUMBER: US 60/156,358
 PRIOR FILING DATE: 1999-09-28
 PRIOR APPLICATION NUMBER: US 60/146,002
 PRIOR FILING DATE: 1999-08-09
 NUMBER OF SEQ ID NOS: 325720
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 311837
 LENGTH: 624
 TYPE: DNA
 ORGANISM: Human
 US-10-027-632-311837

Query Match 68.0%; Score 17; DB 13; Length 624;
 Best Local Similarity 100.0%; Pred. No. 2.7;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CAGGAACCGAATTTA 22
 DB 536 CAGGAACCGAATTTA 520

RESULT 4

US-10-017-161-1629/c
 Sequence 1629, Application US/10017161
 Publication No. US20030143668A1
 GENERAL INFORMATION:
 APPLICANT: SUWA, MAKIKO
 APPLICANT: ASAI, KIYOSHI
 APPLICANT: AKIYAMA, YUTAKA
 APPLICANT: ABURATANI, HIROYUKI
 TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
 FILE REFERENCE: 084335/0152
 CURRENT APPLICATION NUMBER: US/10/017,161
 CURRENT FILING DATE: 2002-12-18
 PRIOR APPLICATION NUMBER: JP 2001/246789
 PRIOR FILING DATE: 2001-06-18
 NUMBER OF SEQ ID NOS: 2430
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 1629
 LENGTH: 7273
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:

NAME/KEY: SOURCE
 LOCATION: (1)..(7273)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (201)..(264)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (1125)..(1354)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (1572)..(1721)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (1955)..(2086)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (3141)..(3257)
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 NAME/KEY: CDS
 LOCATION: (4706)..(4858)
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 LOCATION: (5963)..(6231)
 FEATURE:
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 LOCATION: (6857)..(6926)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (6998)..(7073)
 US-10-017-161-1629

Query Match 68.0%; Score 17; DB 12; Length 7273;
 Best Local Similarity 100.0%; Pred. No. 3.1;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TGCAGGACCGAAT 19
 DB 3978 TGCAGGACCGAAT 3962

RESULT 5
 US-09-864-761-11479/c
 Sequence 11479, Application US/09864761
 Patent No. US20020046763A1
 GENERAL INFORMATION:
 APPLICANT: Penn, Sharon G.
 APPLICANT: Rank, David R.
 APPLICANT: Hanzel, David K.
 APPLICANT: Chen, Wensheng
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
 FILE REFERENCE: Aecm1ca-X-1
 CURRENT APPLICATION NUMBER: US/09/864,761
 CURRENT FILING DATE: 2001-05-23
 PRIOR APPLICATION NUMBER: US 60/180,312
 PRIOR FILING DATE: 2000-02-04
 PRIOR APPLICATION NUMBER: US 60/207,456
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: US 09/632,366
 PRIOR FILING DATE: 2000-08-03
 PRIOR APPLICATION NUMBER: GB 24263.6
 PRIOR FILING DATE: 2000-10-04
 PRIOR APPLICATION NUMBER: US 60/236,359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/00666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00664
 PRIOR FILING DATE: 2001-01-30

```

; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-179918
Query Match
Best Local Similarity 64.0%; Score 16; DB 9; Length 442;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTGCCAGAACCGA 16
Db 226 TGTGCCAGAACCGA 211

RESULT 6
US-10-027-632-179918/c
; Sequence 179918, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 179918
; LENGTH: 494
```

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; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-179918
Query Match
Best Local Similarity 64.0%; Score 16; DB 13; Length 494;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTGCCAGAACCGA 16
Db 49 TGTGCCAGAACCGA 34

RESULT 7
US-10-027-632-220234/c
; Sequence 220234, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 220234
; LENGTH: 624
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-220234
Query Match
Best Local Similarity 64.0%; Score 16; DB 13; Length 624;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AGGAACCGAATTTA 22
Db 357 AGGAACCGAATTTA 342

RESULT 8
US-10-027-632-220235/c
; Sequence 220235, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
```

PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 220235
LENGTH: 624
TYPE: DNA
ORGANISM: Human
US-10-027-632-220235

Query Match 64.0%; Score 16; DB 13; Length 624;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 AGGACCGAGAAATT 22
Db 357 AGGACCGAGAAATT 342

RESULT 9
US-10-027-632-114443
Sequence 114443, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 114443
LENGTH: 641
TYPE: DNA
ORGANISM: Human
US-10-027-632-114443

Query Match 64.0%; Score 16; DB 13; Length 641;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTGCCAGAACGAGA 16
Db 227 TGTGCCAGAACGAGA 242

RESULT 10
US-10-027-632-253734/C
Sequence 253734, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30

PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 253734
LENGTH: 1630
TYPE: DNA
ORGANISM: Human
US-10-027-632-253734

Query Match 64.0%; Score 16; DB 13; Length 1630;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CCAGAACCGAAATT 20
Db 898 CCAGAACCGAAATT 883

RESULT 11
US-09-814-353-21503
Sequence 21503, Application US/09814353
Publication No. US20030165831A1
GENERAL INFORMATION:
APPLICANT: Lee, John
APPLICANT: Thompson, Pamela
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
IDENTIFICATION, ASSESSMENT, PREVENTION, AND
THERAPY OF OVARIAN CANCER
FILE REFERENCE: MRI-006B
CURRENT APPLICATION NUMBER: US/09/814,353
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: US 60/191,031
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: US 60/207,124
PRIOR FILING DATE: 2000-05-25
PRIOR APPLICATION NUMBER: US 60/211,940
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: US 60/216,820
PRIOR FILING DATE: 2000-07-07
PRIOR APPLICATION NUMBER: US 60/220,661
PRIOR FILING DATE: 2000-07-25
PRIOR APPLICATION NUMBER: US 60/257,672
PRIOR FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 22037
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 21503
LENGTH: 1791
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1, 2, 1790, 1791
OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21503

Query Match 64.0%; Score 16; DB 12; Length 1791;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTCCAGGAAACCAG 16
DB 122 TGTCCAGGAAACCAG 137

RESULT 12
US-10-027-632-81341
; Sequence 81341, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81341
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-81341

Query Match 60.0%; Score 15; DB 13; Length 538;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTCCAGGAAACCAG 15
DB 172 TGTCCAGGAAACCAG 186

RESULT 13
US-10-027-632-82646
; Sequence 82646, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82646

; LENGTH: 538
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-82646

Query Match 60.0%; Score 15; DB 13; Length 538;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTCCAGGAAACCAG 15
DB 172 TGTCCAGGAAACCAG 186

RESULT 14
US-10-027-632-180681
; Sequence 180681, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 180681
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-180681

Query Match 60.0%; Score 15; DB 13; Length 538;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTCCAGGAAACCAG 15
DB 172 TGTCCAGGAAACCAG 186

RESULT 15
US-10-027-632-301780
; Sequence 301780, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24

; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 301780
; LENGTH: 538
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-301780

Query Match 60.0%; Score 15; DB 13; Length 538;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TGTGCCAGGAACCCAG 15
|||
Db 172 TGTGCCAGGAACCCAG 186

Search completed: October 9, 2003, 17:54:18
Job time : 26.2381 secs

